Sharp property along the railroad tracks. The plume appears to originate in the vicinity of the MW-4 monitoring well cluster and extends offsite to the east on the neighboring property near MW-11. The upgradient extent of the eastern plume has been determined but the vertical and horizontal downgradient extent have not been determined. The location of each of these two AOCs is illustrated in Figure 2.

2.5 Previous Investigations

The ISRA investigation of the site began in 1985. Most of the significant investigation activities did not begin until 1988. Prior to that, NJDEP had assumed control of the western portion of the site to consolidate and remove illegally stored hazardous waste materials under an enforcement directive. Various investigations were completed by NJDEP while the facility was under their control. The NJDEP completed it removal activities in 1988.

During the ISRA investigation a series of AOC's were identified on the site and addressed via soil and groundwater investigations. Initially a series of 5 groundwater wells were installed and sampled twice for volatile organic compounds (VOC's), base neutral compounds plus 15 peaks (BN+15), priority pollutant metals, phenols and cyanide. The results of these two groundwater sampling rounds confirmed that volatile organic groundwater contamination was present beneath the site. The two sampling rounds from 1989 are summarized in Tables 1 and 2. The early data also confirmed that the levels of VOC's were in excess of applicable standards, but were not extreme. However, over the period from 1985 to 1998 the maximum concentrations reported continued to increase suggesting the presence of an on-site source of the contamination.

The remediation of the site proceeded on an area by area basis, with all post excavation sampling conducted for contaminants of specific concern for each AOC. Essentially, no VOC sampling of soils was conducted until 1997. Additional sentinel wells were installed in 1997 to complete the delineation, these new wells revealed elevated levels of VOCs. As a result of the identification of elevated levels of TCE in the groundwater additional soil investigations were recommended by the Department.

Additional soil and groundwater investigations were conducted from 1997 through 1999. A relatively extensive soil removal project was completed in the Southeastern portion of the site as a result of elevated TCE levels found in the overburden soils in that area. On-site soil remediation activities conducted between February through March 2000 include the excavation of approximately 5,600 tons of soil and/or historic fill, and the collection and analysis of associated post-excavation verification soil samples at the Site. Soil was removed from the southeastern portion of the site to a depth corresponding to the top of bedrock. The results of this shallow soil removal action indicates that on-site source areas of impacted soil were removed, however, the removal action did not address the unsaturated bedrock below the impacted shallow soils. The results are presented in detail in the June 13, 2000 Soil Remedial Action Report - Soils.

Following the removal activities, groundwater and soil sampling activities were conducted in October and December 2000 to determine if any source areas for the elevated concentrations of

verify that dewatering the formation in combination with a high vacuum SVE system is a viable remedial alternative at the Site.

To complete the delineation of the eastern plume, Litgo proposes to abandon and replace one well, MW-5, and install five new bedrock groundwater monitoring wells, perform borehole geophysical investigations, and conduct slug testing in four bedrock groundwater monitoring wells at the Site. In addition, four additional vapor points will be installed to help delineated and monitor the proposed pilot system operation. The following sections provide details regarding the proposed bedrock groundwater monitoring well installation, borehole geophysical testing and slug testing, and justification for the abandonment of MW-5 at the Site. Section 4.0 describes the proposed pilot remediation system. All proposed activities will be conducted in accordance the 1992 NJDEP Field Sampling Procedures Manual, the TRSR, and N.J.A.C. 7:9D-1 through 4 Rules for Well Construction; Maintenance and Sealing of Abandoned Wells.

3.1 Monitoring Well Installation

In addition to abandoning and installing a replacement well for MW-5, Litgo proposes to install, develop, and survey five new bedrock groundwater monitoring wells at the Site. The proposed locations of the additional bedrock groundwater monitoring wells are identified on Figure 4. The replacement well for MW-5 will be designated MW-5R and the five new bedrock groundwater monitoring wells will be designated MW-11A, MW-21, MW-22, MW-23, and MW-24. Proposed well MW-11A will be installed adjacent to existing well MW-11 to vertically delineate the elevated concentrations of TCE detected in MW-11. As such, MW-11A will be installed as an open hole well from 80 to 100 feet below the ground surface. Monitoring well MW-21 will be installed adjacent to MW-13 to delineate the shallow groundwater in this area. Monitoring well MW-22 will be installed as a shallow well down strike of MW-13 and be completed as an open hole well from 30 to 50 feet below the ground surface. Monitoring well MW-23 will be installed between existing wells MW-10 and the MW-5 well cluster and be completed as an open hole well from 30 to 50 feet below the ground surface. Monitoring well MW-24 will be installed near the outfall of the 20-inch pipe located south of the MW-5 well cluster and be completed as an open hole well from 18 to 38 feet below the ground surface. Figure 3 illustrates the May 2001 bedrock groundwater contours at the Site and the locations of the proposed monitoring wells are shown on Figure 4.

Litgo proposes to install the proposed groundwater monitoring wells by air rotary drilling methods as field conditions dictate. As a result, soil samples will not be collected from the overburden during the installation of the proposed monitoring wells. Visual observations and soil lithology will be logged and classified, to the extent possible, by a qualified geologist according to the Unified Soil Classification System. Litgo proposes to install the wells in the bedrock aquifer with approximately 20 feet of 6-inch diameter, with 20 feet of open hole. Only MW-11A will be double cased such that the open hole zone in MW-11 will be cased off by installing 10-inch diameter steel casing inside a 14-inch diameter borehole drilled to approximately 62 feet below ground surface. The steel casing will be grouted into place by either the tremie method or by submergence into a slurry. A New Jersey-licensed well driller will install the three proposed monitoring wells in accordance with applicable guidelines for bedrock monitoring well construction. A summary of the

3.6.1 Groundwater Monitoring

Litgo proposes to collect groundwater samples from 12 existing and 6 newly installed (5 new and one replacement) bedrock monitoring wells. Semiannual monitoring of the monitoring wells will be performed in order to establish reference conditions prior to implementing and help evaluate full scale remedial alternatives. The proposed two-year, semiannual groundwater monitoring program described below.

Groundwater samples will be collected from existing Monitoring Wells MW-2B, MW-3C, MW-4R, MW-4A, MW-7, MW-9, MW-10, MW-11, MW-12 and MW-13, and new monitoring wells MW-5R, MW-11A, MW-21, MW-22, MW-23, and MW-24. The following physical field parameters will be measured and analyzed for during the collection of the baseline groundwater monitoring samples: pH, temperature, dissolved oxygen (DO), eH, and electrical conductivity. The proposed groundwater monitoring samples will also be laboratory analyzed for the following natural attenuation (NA) parameters: VOCs, reducing species (i.e., nitrate, nitrite, sulfate, sulfite, iron, and manganese), and chloride. Table 4 provides a sampling summary of the proposed field and laboratory analytical parameters as well as sample locations for the proposed sampling events. The results of this proposed baseline groundwater sampling event will be presented in the Remedial Investigation Report.

All groundwater sampling activities will be conducted according to the procedures provided in the May 1992 *NJDEP Field Sampling Procedures Manual* (NJDEP, 1992). Groundwater samples will be submitted to a New Jersey-licensed analytical laboratory for analysis for VOCs by USEPA Method 624, reducing species nitrate, nitrite, sulfate, and sulfite by USEPA Method 352.1, 354.1, 375.4, and 377.1, respectively, and chloride by USEPA Method 325.2. A summary of the well completion details of the existing and proposed groundwater monitoring wells is presented in Table 3. A sampling summary of the proposed field and laboratory analytical parameters to be collected during the quarterly groundwater monitoring program is presented in Table 4.

4.0 Proposed High Vacuum SVE Pilot Testing

A preliminary review of available remedial technologies indicates that a high vacuum soil vapor extraction system may be the most appropriate remedial technology for remediating any potential remaining source material in the unsaturated bedrock. To evaluate this potential remedial alternative, a pilot test will be conducted in conjunction with a pumping test in order to obtain aquifer characteristics. The high vacuum system will be combined with dewatering to expose more bedrock to enhance the vapor recovery. The pilot high vacuum SVE test and pumping test will be conducted under a permit-by-rule in accordance with N.J.A.C. 7:14A-8.5. Potential enhancements to the high vacuum system, such as pneumatic fracturing and heating, will be evaluated following the pilot test. Since most of the tests will be conducted on offsite areas (adjacent Mian Property) a site access agreement will be required. The pumping test and pilot extraction/treatment system test are explained in greater detail below.

Table 1
Ground Water Sampling (MW - 9 and 10)
F. Sharp - Somerville, NJ
Historic VOC Data

Location	NJDEP Ground Water Quality Standards	MW -9	MW -9	MW -9	MW -9	MW -9	MW -9	MW -9	MW -10	MW -10	MW -10	MW -10	MW -10	MW -10
Lab ID#		1060-05	2074-09	5034-019	2716-004	5279-008	E81981 - 4	AC25966	3244-001	5034-017	2756-004	5320-006	E82220 - 10	AC25972
Sample Date		05/25/95	05/21/97	11/24/97	05/08/00	05/08/00	12/05/00	05/09/01	08/08/97	11/24/97	05/10/00	08/29/00	12/07/00	05/10/01
GW Elevation (feet)		NA	41.83	39.32	41.3			58.66		36.83	38.15		37.97	39.09
Depth to water (feet)		35.65	34.27	36.78	34.8			18.2		42.12	40.8		41.77	40.65
Northing		629,972	629,972	629,972	629,972	629,972	629,972	629,972	630,012	630,012	630,012	630,012	630,012	630,012
Easting		465,631	465,631	465,631	465,631	465,631	465,631	465,631	465,431	465,431	465,431	465,431	465,431	465,431
VOCs (ppb)														
1,1 - Dichloroethene	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	2	ND	ND	ND	ND	ND	ND	ND	ND	1.83	0.708	ND	ND	ND
Vinyl Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.497	ND	ND	ND
1,1-Dichloroethane	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	6	ND	ND	ND	ND	ND	ND	ND	ND	2.07	1.89	ND	ND	1
Tetrachloroethene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	ND	ND	ND
1,2-Dichloroethane	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	ND	ND	[illegible]	ND	ND	ND	ND	2,330	1,800	1,990	3,590	2,800	1,500 D
1,1,2-Trichloroethane	3	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	4.32	ND	ND	5
Methylene Chloride	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total xylenes	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 - Dichlorobenzene	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	[illegible]
2-Butanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Targeted VOs:		2.62	0	48.2	0	0	ND	0	2,330.00	1,808.79	1,998.50	3,590	2,800	1,553

J = Indicates compound concentration below MDL
B = compound was detected in laboratory blank
NR = Not Reported
NS = no standard
E = concentration exceeds calibration range
D = The compound was report from the Diluted analysis
ppb = parts per billion

Table 1
Ground Water Sampling (MW - 11,12, and 13)
F. Sharp - Somerville, NJ
Historic VOC Data

Location	NJDEP Ground Water Quality Standards	MW -11	MW -11	MW -11	MW -11	MW -11	MW -11	MW -12	MW -12	MW -12	MW -12	MW -13	MW -13	MW -13	MW -13
Lab ID#		3672-002	5034-020	2756-005	2756-005	E82220 - 14	AC25982	27565-001	5320-008	E82220 - 11	AC25969	2757-007	5320-004	E82220 - 15	AC25974
Sample Date		09/05/97	11/24/97	05/10/00	08/29/00	12/07/00	05/11/01	05/10/00	08/29/00	12/07/00	05/10/01	05/09/00	08/29/00	12/07/00	05/10/01
GW Elevation (feet)			42.84	43.71		43.18	44.19	37.37		37.06	38.18	37.84		36.59	38.67
Depth to water (feet)			31.02	30.15		31.46	30.45	27.06		28.18	27.07	37.6		39.75	37.67
Northing		629,819	629,819	629,819	629,819	629,819	629,819	629,650	629,650	629,650	629,650	629,897	629,897	629,897	629,897
Easting		465,624	465,624	465,624	465,624	465,624	465,624	465,707	465,707	465,707	465,707	465,796	465,796	465,796	465,796
VOCs (ppb)															
1,1 - Dichloroethene	2	ND	[redacted]	ND	ND	ND	[redacted]	[redacted]	ND	ND	ND	ND	ND	1.6 J	ND
Carbon Tetrachloride	2	ND	[redacted]	ND	ND	ND	[redacted]	[redacted]	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5	ND	[redacted]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100	ND	3.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	70	ND	1.31	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	30	ND	3.63	ND	ND	ND	4 J	0.712	ND	ND	ND	ND	ND	ND	ND
Chloroform	6	ND	[redacted]	ND	ND	ND	[redacted]	19.2	ND	ND	1	ND	ND	ND	ND
Tetrachloroethene	1	ND	[redacted]	ND	ND	ND	[redacted]	[redacted]	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	2	ND	[redacted]	ND	ND	ND	[redacted]	1.22	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
1,1,2-Trichloroethane	3	ND	[redacted]	ND	ND	ND	[redacted]	104	ND	ND	[redacted]	ND	ND	2.5 J	ND
Methylene Chloride	3	ND	2.46	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total xylenes	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 - Dichlorobenzene	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.8	ND
cis-1,2-Dichloroethene	10	ND	ND	ND	ND	ND	[redacted]	ND	ND	ND	[redacted]	ND	ND	[redacted]	ND
2-Butanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 J	ND
Total Targeted VOs:		253,000	229,599.90	151,000	316,000	169,000		7,336.61	1,510.00	419	1,424	2,030	6,550	102.7	540

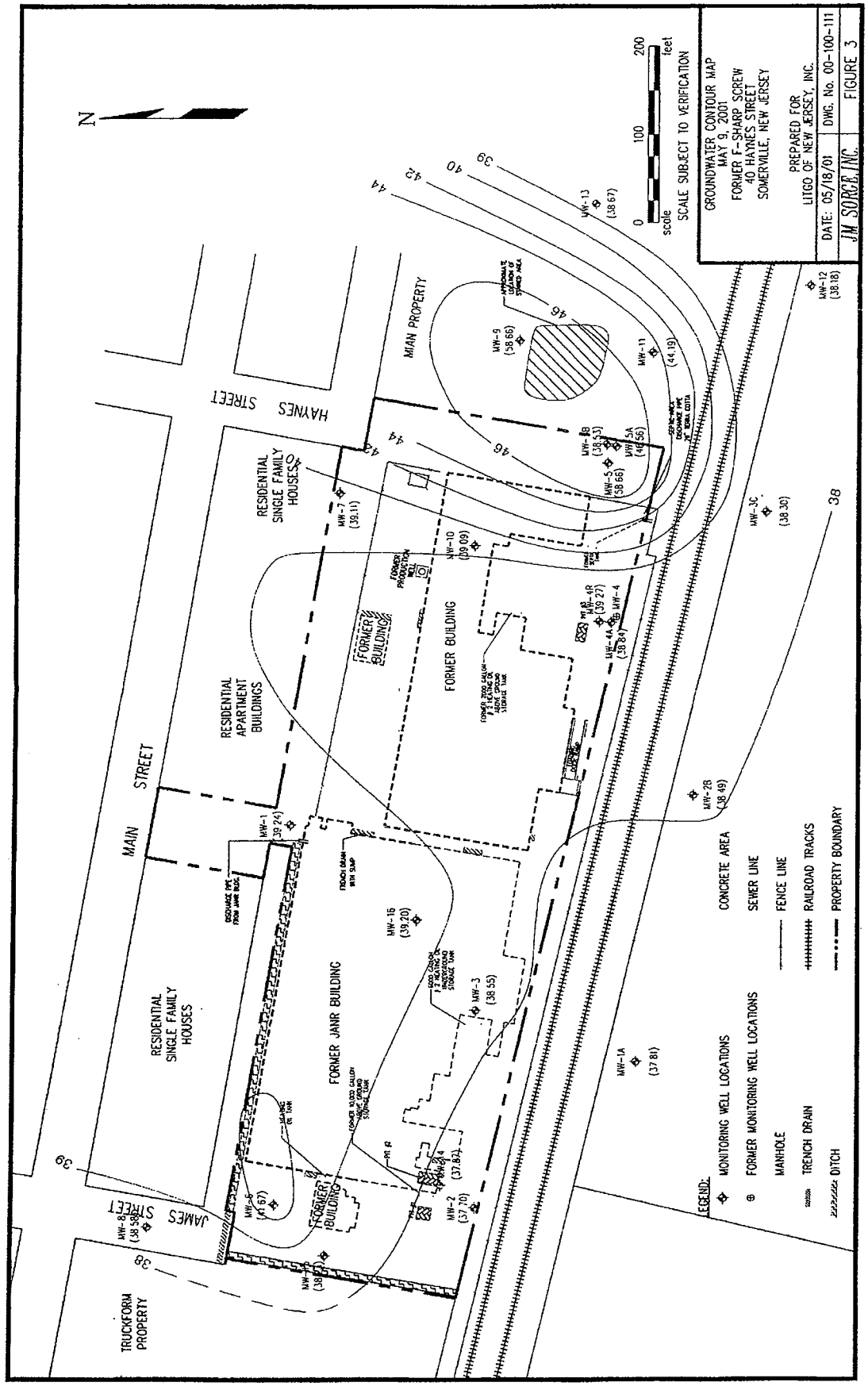
J = Indicates compound concentration below MDL
B = compound was detected in laboratory blank
D = The compound was report from the Diluted analysis
ppb = parts per billion

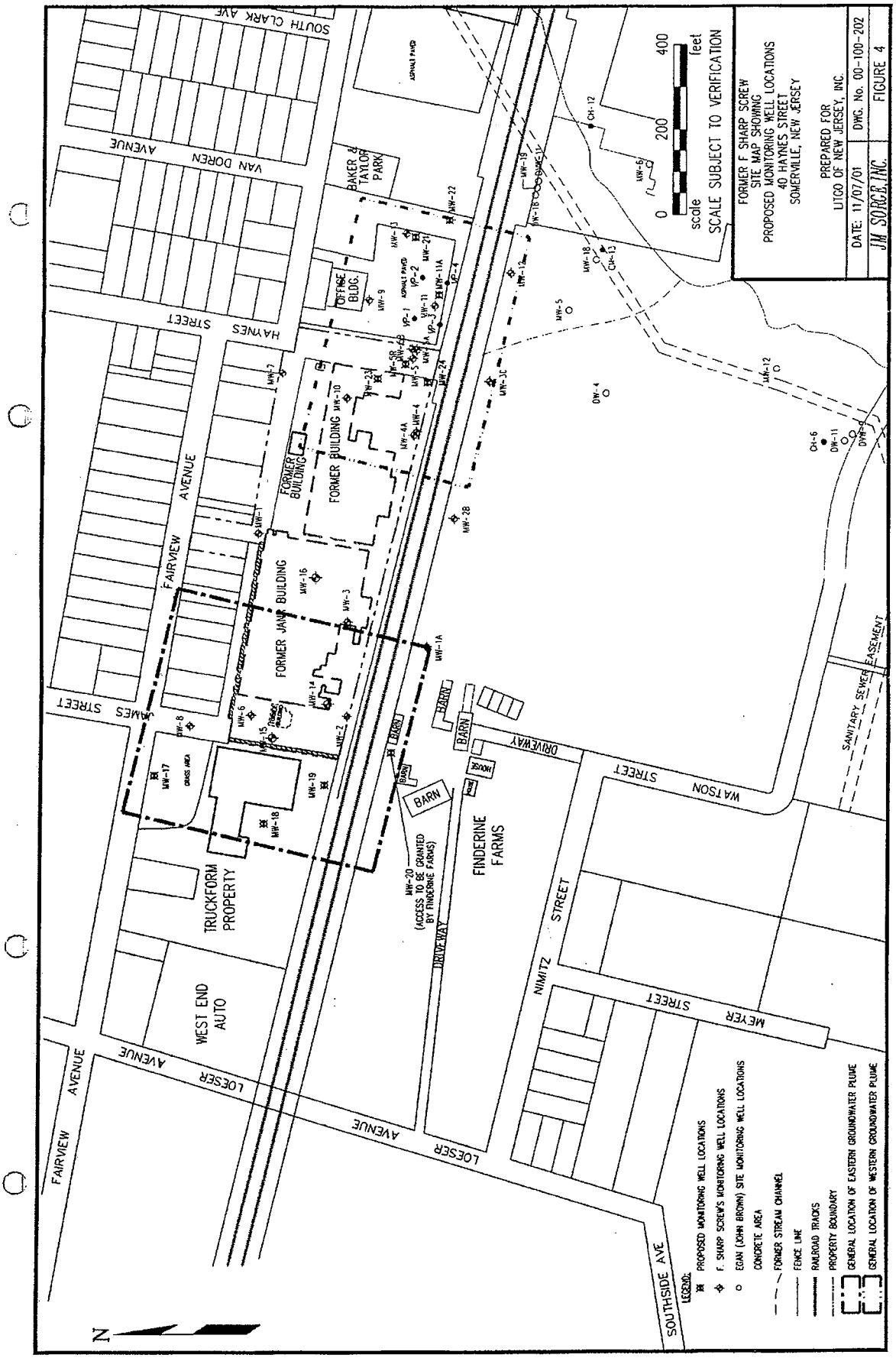
NR = Not Reported
NS = no standard
E = concentration exceeds calibration range

Table 3
Existing and Proposed Well Construction Summary
Former F-Sharp Screw, Somerville, NJ

Well No.	Permit Number	Northing	Easting	Date Constructed	Depth Below Surf	Elevation TOC	Casing Mat.	size	Screen Material	Screen Length
MW-1	25-33143-4	630.2490	465.1420	03/20/89	64	83.00	Steel	6	open-hole	46
MW-1A	25-35797-1	629.8940	464.8320	03/21/90	77.5	82.81	Steel	6	open-hole	15.5
MW-2	25-33144-2	630.0190	464.6550	03/20/89	59	78.34	Steel	6	open-hole	41
MW2B	25-35798-1	629.8230	465.1510	03/21/90	67	79.74	Steel	6	open-hole	46
MW-3	25-33145-1	629.9670	464.8770	03/23/89	63	78.48	Steel	6	open-hole	45
MW-3C	25-35799-9	629.7550	465.4420	03/21/90	64.4	72.52	Steel	6	open-hole	43.4
MW-4*	25-33146-9	629.8630	465.3350	03/23/89	41	77.57	Steel	6	open-hole	23
MW-4A	25-50565	629.8770	465.3170	05/02/97	62.5	78.11	Steel	6	open-hole	27.5
MW-4R	25-57987	629.8900	465.3260	04/20/01	41.4	77.29	Steel	6	open-hole	23
MW-5	25-33147	629.8650	465.5000	03/23/89	43.5	76.08	Steel	6	open-hole	25.5
MW-5A	25-50566	629.8510	465.5180	05/02/97	63	78.27	Steel	6	open-hole	28
MW-5B	25-50917	529.8690	465.5220	07/18/97	118	78.29	Steel	6	open-hole	28
MW-5R	TBD	TBD	TBD	TBD	44	TBD	Steel	6	open-hole	20
MW-6	25-39046	630.2460	465.6980	prior to 7/91	61	79.43	Steel	4	open-hole	24
MW-7	25-39047-3	630.1800	465.5260	prior to 4/89	63	82.49	Steel	4	open-hole	31
MW-8		630.9300	465.6430	05/01/95	63	77.82	Steel	6	open-hole	28
MW-9		629.9720	465.6310	04/29/95	41	76.86	Steel	6	open-hole	20
MW-10	25-50916	630.0120	465.4310	07/18/97	60	79.74	Steel	6	open-hole	25
MW-11	25-51116	629.8190	465.6240	08/29/97	62.5	74.64	Steel	6	open-hole	27.5
MW-11A	TBD	TBD	TBD	TBD	100	TBD	Steel	4	open-hole	20
MW-12	25-55182	629.6500	465.7070	04/26/00	65	65.25	Steel	6	open-hole	25
MW-13	25-55184	629.8970	465.7960	04/14/00	95	76.34	Steel	6	open-hole	35
MW-14	25-57984	630.066	464.691	04/19/01	60.8	79.01	Steel	6	open-hole	20.1
MW-15	25-57985	630.194	464.612	04/19/01	60.3	79.05	Steel	6	open-hole	19.5
MW-16	25-57986	630.094	464.989	04/19/01	60.2	81.17	Steel	6	open-hole	20
MW-17**	TBD	TBD	TBD	TBD	60	TBD	Steel	6	open-hole	20
MW-18**	TBD	TBD	TBD	TBD	60	TBD	Steel	6	open-hole	20
MW-19**	TBD	TBD	TBD	TBD	60	TBD	Steel	6	open-hole	20
MW-20**	TBD	TBD	TBD	TBD	60	TBD	Steel	6	open-hole	20
MW-21	TBD	TBD	TBD	TBD	50	TBD	Steel	6	open-hole	20
MW-22	TBD	TBD	TBD	TBD	50	TBD	Steel	6	open-hole	20
MW-23	TBD	TBD	TBD	TBD	50	TBD	Steel	6	open-hole	20
MW-24	TBD	TBD	TBD	TBD	38	TBD	Steel	6	open-hole	20
VP-1	TBD	TBD	TBD	TBD	36	TBD	Steel	4	open-hole	20
VP-2	TBD	TBD	TBD	TBD	36	TBD	Steel	4	open-hole	20
VP-3	TBD	TBD	TBD	TBD	36	TBD	Steel	4	open-hole	20
VP-4	TBD	TBD	TBD	TBD	36	TBD	Steel	4	open-hole	20

* - MW- 4 was abandoned 4/20/01 and replaced with MW-4R
** - Wells to be installed offsite on the Truckform and Finderne Farms properties for delineation of the western plume
TBD - To be determined


N
0
100
200
scale
feet
SCALE SUBJECT TO VERIFICATION
GROUNDWATER CONTOUR MAP
MAY 9, 2001
FORMER F-SHARP SCREW
40 HAYNES STREET
SOMERVILLE, NEW JERSEY
PREPARED FOR
LITGO OF NEW JERSEY, INC.
DATE: 05/18/01
DWG. No. 00-100-111
JM SORGE INC.
FIGURE 3
HAYNES STREET
MAIN PROPERTY
RESIDENTIAL SINGLE FAMILY HOUSES
RESIDENTIAL APARTMENT BUILDINGS
FORMER BUILDING
FORMER JANR BUILDING
MAIN STREET
JAMES STREET
TRUCKFORM PROPERTY
MW-1 (39.24)
MW-1A (37.81)
MW-2 (37.70)
MW-2B (38.49)
MW-3 (38.55)
MW-3C (38.30)
MW-4 (38.84)
MW-4B (39.27)
MW-5 (38.66)
MW-5A (40.56)
MW-5B (38.53)
MW-6 (41.67)
MW-7 (39.11)
MW-8 (38.58)
MW-9 (38.66)
MW-10 (39.09)
MW-11 (41.19)
MW-12 (38.18)
MW-13 (38.67)
MW-16 (39.20)
LEGEND:
MONITORING WELL LOCATIONS
FORMER MONITORING WELL LOCATIONS
MANHOLE
TRENCH DRAIN
DITCH
CONCRETE AREA
SEWER LINE
FENCE LINE
RAILROAD TRACKS
PROPERTY BOUNDARY


SOUTH CLARK AVE
VAN DOREN AVENUE
BAKER & TAYLOR PARK
HAYNES STREET
FAIRVIEW AVENUE
FORMER BUILDING
FORMER JANE BUILDING
OFFICE BLDG.
BARN
DRIVEWAY
WATSON STREET
SANITARY SEWER EASEMENT
TRUCKFORM PROPERTY
WEST END AUTO
FINDERNE FARMS
NIMITZ STREET
MEYER STREET
LOESER AVENUE
SOUTHSIDE AVE
MW-20 (ACCESS TO BE GRANTED BY FINDERNE FARMS)
SCALE SUBJECT TO VERIFICATION
0 200 400 feet
scale
FORMER F SHARP SCREW
SITE MAP SHOWING
PROPOSED MONITORING WELL LOCATIONS
40 HAYNES STREET
SOMERVILLE, NEW JERSEY
PREPARED FOR
LITGO OF NEW JERSEY, INC.
DATE: 11/07/01
DWG. No. 00-100-202
JM SORGE, INC.
FIGURE 4
LEGEND:
PROPOSED MONITORING WELL LOCATIONS
F. SHARP SCREW'S MONITORING WELL LOCATIONS
EGAN (JOHN BROWN) SITE MONITORING WELL LOCATIONS
CONCRETE AREA
FORMER STREAM CHANNEL
FENCE LINE
RAILROAD TRACKS
PROPERTY BOUNDARY
GENERAL LOCATION OF EASTERN GROUNDWATER PLUME
GENERAL LOCATION OF WESTERN GROUNDWATER PLUME
N

The Source Group, Inc.

BORING/WELL ID: DW-13

Project Name and Address: EGAN 2, 36 S. ADAMSVILLE RD., SOMERVILLE, NJ

Boring Location: ADJACENT TO WELL DVW-8

Project No.: 01-KVA-001 EGAN 2

Date/Time	Blows/6 Inches	PID (ppm)	Recovery (%)	Fracture #	RQD (%)	Stratigraphy	Depth (feet)	Water-level	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other)	Well Construction Details
			100	39	60		50			
		3.7					55		51-55 feet Siltstone	
		3.0	100	55	40		60			
		4.8					65		65-68 feet Highly fractured zone	
		3.1					70		69-71.5 feet Siltstone **Total Depth = 70 FT BGS**	
							75			
							80			
							85			
							90			
							95			
							100			
							105			
							110			

Notes:

Bore hole data reproduced from the log for cored hole CH-5, located approx. 20 feet east of DW-13; only cuttings were logged during installation of well DW-13

GROUT

4" OPEN INTERVAL, 60-70 FT

GROUT

EXHIBIT R

file

State of New Jersey
Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

SEP 13 1996

Mr. William Friedman, Esq.
Brach, Eichler, Rosenberg, et AL
101 Eisenhower Parkway
Roseland, NJ 07068-1067

RE: F. Sharp Screw Machine Products, Janr Transport, and Morgan Chemical Co. (F. Sharp)
Somerville Boro., Somerset County
ISRA Case #85647, 85648, 85649

Dear Mr. Friedman:

The New Jersey Department of Environmental Protection (NJDEP) has reviewed F. Sharp's response dated December 8, 1995 to NJDEP's letter dated November 8, 1995 and F. Sharp's Remedial Investigation Addendum Report dated August 19, 1996. Based upon the review, the NJDEP has the following comments and requirements.

Area of Concern #5, Drainage Ditch

F. Sharps petition for alternate cleanup standards is acceptable. Therefore, no further action in the area of the Drainage Ditch is acceptable.

Ground Water

F. Sharp states that NJDEP has indicated that it has two major concerns regarding F. Sharp's natural remediation of ground water proposal, which are the degradability of chlorinated solvents and a receptor evaluation. In the December 11, 1995 meeting, NJDEP stated that delineation of ground water contamination and a receptor evaluation were the major issues to be addressed before natural remediation of ground water could be approved. NJDEP does not believe that contaminant levels are decreasing and the plume size has remained stable and has not migrated in the past five years. Therefore, NJDEP does not believe that the contaminant plume is naturally degrading at this time. Furthermore, the incomplete delineation makes it very difficult to verify the plume configuration and contaminant levels suggest source(s) may still be present. Based on the December 11, 1995 meeting, F. Sharp is aware that the lack of delineation is an impediment to selecting a remedial strategy for this site, but indicated they are unwilling to commit to completing the delineation without agreement by NJDEP that active ground water remediation would not be required. Therefore, F. Sharp's proposal for a natural remediation of ground water is unacceptable at this time.

1. F. Sharp shall propose to implement a quarterly monitoring program. NJDEP believes that quarterly monitoring data is needed to assess trends in

continue to impact ground water quality. If ground water contaminant [illegible] exist as is believed to be the case at this site, contaminant levels would not decrease. In this case monitoring data may assist F. Sharp in identifying source(s), if F. Sharp is unable to locate sources by other means, such as, historical and operational information. Available ground water data suggests that a source may be present in the area between monitor well 4 (MW-4), MW-5, and MW-3C. Furthermore, an additional source may be present in the vicinity of MW-6.

3. F. Sharp's discussion of contaminant degradability does not provide information that adequately supports a natural remediation proposal for this site. Site characterization data is lacking at this time. Contaminant source(s) have not been found, delineation on and off-site has not been completed. Therefore, F. Sharp shall submit a proposal to completely delineate ground water contamination. If off-site migration of contamination is determined, hydraulic control may be required to control the contaminant plume.

4. F. Sharp should consider utilizing wells installed by Egan Machinery for their investigation, if permission can be obtained from Egan Machinery. These wells would be useful for some of the required plume delineation, although F. Sharp will still have to install additional wells. Wells must also be installed to investigate the extent of contamination that has migrated from the F. Sharp site onto the properties on Dewey Street and Nimitz Road as discussed below.

Well Search/Production Well

NJDEP requested a well search be completed. F. Sharp stated that a well search was performed and that the results of that search are included in a Ground Water Sampling Report dated August 20, 1990. However, NJDEP was unable to locate the August 20, 1990 report in their files. Therefore, F.Sharp shall resubmit the August 20, 1990 report or complete a well search, so locations of domestic and commercial wells that are known or suspected to exist can be mapped and location information can be documented. Furthermore, F. Sharp shall plot this information on a tax map, along with the location of the on-site supply well. F. Sharp believes the on-site supply well has been sealed. However, NJDEP has not received any documentation that this well has been sealed. Therefore, F. Sharp shall submit documentation that the on-site supply well has been sealed.

Receptor Evaluation

NJDEP requested a receptor evaluation be completed. F. Sharp has documented the locations of several surface water bodies in the vicinity of the site. The closest is an unnamed stream, located about 1,000 feet from the site in a direction believed to be hydraulically downgradient. Although this stream is about 1,000 feet from the F. Sharp site, it is only 200 to 300 feet downgradient of the F. Sharp plume, based on data from the Egan Machinery site. F. Sharp, quotes a March 1995 report from the Egan Machinery Site that states the stream is a "losing stream". F. Sharp claims that ground water is at least 10 feet below grade. NJDEP, believes that Egan has no data to support the statements made in the December 1995 report. It should be noted that the

EXHIBIT S

2000.130
File

JM Sorge, Inc.
Environmental Consultants

50 County Line Road, Somerville, NJ 08876 • (908) 218-0066
Fax (908) 218-9185 • email: consult@jmsorge.com

December 1, 2000

Mr. Kenneth Kahora, Case Manager
New Jersey Department of Environmental Protection
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment
401 East State Street
P.O. Box 028
Trenton, New Jersey 08625-0028

Re: Response to the Department's DRAFT Letter
(Review of RAR-Soils and RIR-Groundwater both dated June 13,2000)
Former F. Sharp Screw Site
Somerville, New Jersey
ISRA Case Nos. 85647, 85648, and 85649

Dear Mr. Kahora:

JM Sorge, Inc. has been retained by Litgo of New Jersey, Inc. (Litgo) to perform remedial investigation activities necessary to reasonably satisfy the Department's concerns prior to the development of the above referenced property. The Department in it's DRAFT letter provided comments to the Remedial Action Report - Soils dated April 2000 and the Remedial Investigation Report - Groundwater, dated April 2000.

The following is provided on behalf of Litgo to respond to the requirements of the Department's letter and only those items requiring a response are provided. The Department's comments as put forth in the Department's letter are presented below in italics and Litgo's responses are provided after each item in bold text.

I. REMEDIAL ACTION REPORT - SOILS

A. AOC-1 Subsurface Pits #1 and #2 (Western Side of Property)

Please be advised that F. Sharp's proposal for no further action for the AOC-1 Subsurface Pits #1 and #2. Please be advised that since soil base samples could not be obtained that the investigation for the two subsurface pits shall be addressed through groundwater investigation.

The Technical Rules for Site Remediation (N.J.A.C 7:26E et seq.) Require groundwater sampling for these pits, based on the description of these pits provided by F. sharp. See area specific sampling requirements under N.J.A.C. 7:26E-3.9(e)3.iii. Groundwater sampling must be conducted at a location that is within two feet of the pits and located hydraulically downgradient of the pits. Monitoring well MW-2, which appears to be located hydraulically downgradient of these pits, is located too far (about 100 feet) away from this AOC, and therefore

is not acceptable for determination of potential groundwater impacts from these pits. Both pits were completed within the bedrock, which has limited F. Sharp's ability to conduct soil sampling. These pits may have discharged directly to groundwater (bedrock) based on the description of construction. The use of the pits, although not documented, appears to have been for waste disposal. F. sharp did not describe how wastes were discharged to the pits. Piping and other structures associated with these pits must be investigated. Groundwater contamination has been detected in well MW-2, but limited groundwater sampling has been conducted in the central and eastern portions of the site and the source of contamination in well MW-2 are not clear at this time.

Response: The Pits #1 and #2 reportedly to be utilized for the junction of electrical lines and were not utilized for disposal purposes. As discussed during the November 13, 2000 meeting, one monitoring well will be installed at a location that will monitor the groundwater quality downgradient of both locations. The proposed location is illustrated in Figure 1. The well will be a 6-inch open-hole rock well and constructed similar to the existing wells on-site. The boring will be advanced and continuous split-spoon samples will be collected until rock is encountered and field logged for lithology. The well will be completed into the first water encountered with 20 feet of open hole. Based on the geology and water levels in surrounding wells the well will be approximately 60 feet deep. The boring will be advanced and the well constructed in accordance with the methods outlined in the NJDEP's Field Sampling Procedures Manual for monitoring well requirements for bedrock formations.

B. AOC-2 Soil Excavation Southeast Corner of the Property

Therefore, F. Sharp's proposal for no further action for AOC-2 Soil Excavation Southeast Corner of the Property is acceptable. Please be advised that a groundwater investigation is being conducted in this area and significant groundwater impacts have been observed. Please be advised that future ground water investigations may determine that additional soil investigation will be required in this area.

Response: During an aerial photo review of the site and adjacent properties, two issues were identified regarding the adjacent property to the east of the F. Sharp site. The aerial photos indicate that the entire property consisting of Lot 4.01 and Block 1 of the Boro of Somerville has been filled and disturbed historically dating back to the earliest aerial photo in 1940. In addition, an area of dark staining appears in the 1969 photo in the area corresponding to the location of MW-11. Visual observations along the railroad track area indicate that the fill material consists primarily of ash and cinder fill.

To evaluate whether the dark stained area is potentially a source area for the concentrations of TCE identified in well MW-11, additional soil borings are proposed. A minimum of nine (9) soils borings will be performed in the vicinity of the area of dark staining. Each boring will be advanced to the top of the bedrock

surface with continuous split-spoon or continuous macrocore sampling techniques. Samples will be collected from the 18 to 24 and 30 to 36 inch interval below the asphalt. One additional sample will be collected from the interval exhibiting the highest field screening results, or the 0 to 6 inch interval above the bedrock. Additional samples may be collected based on the field screening results. Samples will be submitted for analysis for volatile organic compounds plus 15 peaks. Actual sample locations may be adjusted in the field based on conditions observed. The proposed sample locations are illustrated in Figure 1 and are summarized in Table 1.

In addition, as discussed during the November 13, 2000 meeting, a title search of the adjacent property is currently being conducted. The results of the search will be forwarded to the Department when available.

AOC 3: Off-site soil gas survey and soil sampling (Truckform Property)

F. sharp has not demonstrated that the soil contamination detected at these two locations originates from the Truckform Property. None of the other soil gas sampling points located on the Truckform Property detected contamination. The source of the contamination detected at these locations could be from the F. sharp Property. The available data is inconclusive. F. Sharp's proposal for no further action for groundwater on the western portion of the F. sharp site is unacceptable. A remedial investigation of groundwater beneath the western and central portions of the property is required. F. sharp has argued that groundwater beneath the western portion of the property flows to the southwest, from the F. sharp site towards the Truckform Property. This flow interpretation is not consistent with F. Sharp's interpretation the source of the contamination detected in well MW-6 and MW-8 originates from the Truckform Property. The groundwater mound on the eastern portion of the site, as evidenced by data from wells MW-4 and MW-5, alters local flow conditions and indicates that groundwater contamination detected in the vicinity of well clusters MW-4 and MW-5 may migrate towards the central and western portions of the site. Detection of TCE at TF-8, TF-9 ST-51 and ST-45 and groundwater contamination in MW-6 and MW-8 may be the result of activities on the F. sharp site. Activities at the Truckform Property may have impacted groundwater quality, but F. sharp has not demonstrated this is the case.

Response: To further the investigation of the western portion of the site, F. Sharp proposes to perform soil sampling in the areas that correspond to potential source areas identified during an aerial photo review. Based on the aerial photo review, two areas in the western portion of the site may be sources for the contamination identified in monitoring wells, a former drainage ditch and sewer line. A small drainage ditch that may have received sump and trench drain discharge water has been identified. The ditch originated at the northeast corner of the former JANR building in the central portion of the property and extended east to the Truckform Property line where it apparently turned south and headed towards the railroad tracks. To investigate this area soil sampling is proposed. Samples will be collected starting at the discharge point at the northeast corner of the former JANR building

and continue along the trace of the ditch to the railroad tracks. Samples will be collected from boring locations spaced approximately 100 feet apart. At each location samples will be collected at 18 to 24 inches, 3 to 3.5 feet and 0 to 6 inch interval above the top of bedrock. Approximately 9 locations will be sampled at 3 depth intervals. All samples will be submitted to a New Jersey certified laboratory for analysis of volatile organic compounds plus 15 peaks. The proposed sample locations are illustrated in Figure 1 and are summarized in Table 1.

In addition, a sewer line that runs from James Street through the Truckform Property, and onto the F. Sharp site may have historically received discharges. To investigate this area the location of the sewer line will be established and evidence of the existence of manholes examined. If any manholes are found samples will be collected from the sediments at the base of the manhole. If no manholes are found borings will be placed at the locations where manholes have been historically shown. The borings will be advanced to a depth corresponding to the invert of the manhole located on James Street or the top of bedrock or groundwater, which ever is encountered first. The samples will be submitted for analysis of volatile organic compounds plus 15 peaks. The proposed sample locations are illustrated in Figure 1 and summarized in Table 1.

To further the investigation of the groundwater in this area, one monitoring well will also be installed. The well will be located at the western property line at the junction of the sewer line from the Truckform Property and the sewer line from the F. Sharp site. The well will be a 6-inch open-hole rock well and constructed similar to the existing wells on-site. The boring will be advanced and continuous split-spoon samples will be collected and field logged for lithology until rock is encountered. The well will be completed into the first water encountered with 20 feet of open hole. Based on the geology and water levels in surrounding wells the well will be approximately 60 feet deep. The boring will be advanced and the well constructed in accordance with the methods outlined in the NJDEP's Field Sampling Procedures Manual for monitoring well requirements for bedrock formations.

D. F. Sharp's Request for a Site Wide No Further Action - Soils

F-Sharp's proposal for a site wide no further action for soil is conditionally acceptable. NJDEP has issued this conditional no further action for soils with the possibility that additional sources of contamination may be identified during the completion of the groundwater investigation. Please be advised that if future ground water investigations determine that additional sources of soil contamination may be present then this conditional no further action for soils will be rescinded. Additionally, F. Sharp has not demonstrated that the contamination detected off-site originates from the Truckform Property. In order to demonstrate that soil contamination is emanating from the Truckform property, additional soil investigation is required in the vicinity of the F. Sharp and Truckform property boundary.

F. Sharp intends to build a residential development on the property. As per NJDEP's letters in

EXHIBIT T

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OF COUNSEL:
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ALLAN H. KUNGER
(1957-1998)
DOROTHY G. BLACK
(1974-1980)

ANN D. STEVENS
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PAUL E. DELLORUSSO
M. CHRISTINA ALMANZOR*

ALSO ADMITTED TO PRACTICE IN
* NY # PA ~ DC ! OTHER DISTRICTS
A CERTIFIED CIVIL TRIAL ATTORNEY
‡FL **ON LEAVE

August 7, 1997

Dr. Bilal Mian
Kirby Associates
P.O. Box 6848
Bridgewater, N.J. 08807

RE: Monitoring Well at 36 Kirby Ave.

Dear Dr. Mian:

As you are aware, this law firm represents Sheldon Goldstein, the owner of the property adjacent to your property at 36 Kirby Ave. The purpose of this letter is to confirm my telephone conversation with Rebecca of your office on Thursday, August 7, 1997. Rebecca called me back to advise us that you have consented to our request to install an additional monitoring well at the rear of your property, near the railroad tracks. As set forth in Andrew Waring's July 23, 1997 letter to you, the well drilling will take approximately two days, and groundwater sampling will take several hours. The well will be flush mounted and unobtrusive. As you are aware, we have been working extensively with the NJDEP to conclude the investigation and remediation of the property. We are hopeful that the NJDEP will grant us a sign-off in the near future, so that we may finally develop the site, which will benefit you, the municipality and our client.

If you have any questions or comments, please do not hesitate to contact me. Thank you for your courtesies in this regard.

Very truly yours,

JOHN P. WYCISKALA

JPW:mt
cc: Andrew Waring
Sheldon Goldstein

000068

M000084

EXHIBIT U

COPY

REMEDIAL INVESTIGATION ADDENDUM REPORT

Property Known As:

F. Sharp Screw
Somerville, New Jersey
ISRA Case Nos. 85647, 85648 & 85649

Prepared for:

Litgo of New Jersey, Inc.
17 Bon Aire Circle
Suffern, New York 10901

February 25, 1998

Submitted by:

Environmental Waste Management Associates, LLC
100 Misty Lane, P.O. Box 5430
Parsippany, New Jersey 07054
EWMA Case No. 88106

VOLUME 1 0F 3

Alfred E. Moffit III

Prepared by: Alfred E. Moffit III
Geologist
NJDEP License No. 0018445

Reviewed by: Kevin D. Orabone
Regional Technical Manager
NJDEP License No. 0011634

5. The Somerset Broadcasting site is abandoned. A new radio station currently operates from a nearby trailer. However, according to representatives of this facility, there is currently no water hook-up, either city or on-site well, at this site.

6. Two possible additional domestic wells were identified on Van Veghten Drive in Bridgewater. A resident at one of these locations, #95, did not know what type of water was utilized. However, a call to the local water purveyor did not reveal billing records for these two properties. These properties are also located downgradient of the Egan Machinery site.

2.8 Records Search

In an effort to identify an on-site source for the contamination detected during the course of this investigation, an exhaustive search of historical and operational records was conducted. During the course of this search, no records were discovered which indicated an on-site source of the contamination.

2.8.1 Aerial Photograph Review

EWMA reviewed aerial photographs provided by the NJDEP Aerial Photo and Map Library for the years: 1930/32, 1940 and 1954; and aerial photographs provided by the Somerset County Planning Commission for the years 1962, 1969 and 1980. The purpose of the aerial photograph review was to detect potential sources responsible for chlorinated VO compounds detected in the ground water. Resolutions of NJDEP provided photographs were not provided in the information package but are assumed to be 1 inch = 1,667 feet based on prior reviews of aerial photographs from these years. The building references (i.e. "A", etc.) correspond to the buildings depicted on Figure 1.

1930/32

Subject Site - A large industrial complex (The Somerville Iron Works), consisting of two large buildings (B and D) and one smaller building (A), is observed on the subject site. The buildings are oriented east to west. The site is bounded by multiple unit residential dwellings to the north, Haynes Street, which extends to the railroad tracks, beyond which is undeveloped, vacant property, to the east, railroad tracks to the south, and James Street, which extends towards the railroad tracks, to the west.

Two small areas of bare soil are observed to the north of building D. One small area of bare soil is observed to the west of building B and to the northwest of building D. Bare soil areas are observed to the southeast of building D along with either an area of ponded liquid or forested growth. Two vertical structures are observed on the roof of building B.

Offsite - A smaller suspected industrial building (The Somerville Iron Works Machine Shop) is observed west of James Street and the subject site.

Sites south of the railroad tracks are undeveloped and vacant, apparently used for farming. The farm houses and barns, situated southwest of the subject site and the railroad tracks are observed.

The site east of the subject site is undeveloped and vacant. A dirt road leads from the northeastern corner of the subject property at Haynes Street and extends southeast to a large area of disturbance, just south of Clark Avenue. Two large bare soil areas are also observed just east of the subject property between the dirt road and the railroad tracks.

Grassy areas are suspected north of the dried pond or soil disturbance area toward Kirby Avenue. Kirby Avenue is suspected to be a dirt road. Potential mounded soils are situated north of Kirby Avenue on either side of Van Doren Avenue, suggesting potential earth moving for construction of homes. South Richards and South Auten Avenues are observed but development of this area is restricted to properties adjacent to East Main Street.

A drainage channel, which discharges to the Raritan River, is observed extending from the northeast between South Richards and Auten Avenues to the southwest.

April 10, 1940

Subject Site - Buildings A - D are observed in this aerial photograph. A bare soil area is observed of off the southeastern corner of building B; this area extends towards the railroad tracks. Kirby Avenue is observed extending across the northeastern portion of the subject site to the northeastern corner of building D. A suspected dirt road from this extension of Kirby Avenue extends into Fairview Avenue. The suspected ponded liquid or forested area is not observed at this location as in 1930/32.

Offsite - Offsite property usage north, west, and south is the same as in 1930/32. New structures (houses) are observed on the east side of South Richards Avenue. Extensive soil disturbance is observed throughout this area indicating deposition, excavating or grading activities. Kirby Avenue extends to the east between Van Doren and South Clark Avenues. A distinct drainage culvert is observed commencing at the current location of South Auten Avenue traversing to the southwest towards the railroad tracks. Several apparent drainage channels connect with this primary drainage culvert south of South Clark Avenue. A potential dirt road or drainage channel is observed extending from the subject site toward the southeast, eventually connecting to the drainage culvert. Extensive grading, deposition or excavation has occurred at this location since the 1930/32 aerial photograph.

April 20, 1954

Subject Site - Buildings A - E are observed in this aerial photograph. Bare soil areas are observed to the east and west of building C and to the south of building D. All other features are the same as in the 1940 aerial photograph.

Offsite - Resolution is poor but changes have occurred at the property west of James Street (machine shop). Suspected soil disturbance is observed surrounding the building and unidentified darkened structures organized in rows oriented north to south are observed at the southern perimeter of the property. These darkened areas are suspected to be trailers.

Property usage to the north and south are the same as in 1940.

Extensive soil disturbance is observed on the property east of Haynes Street and the subject site. Mounded materials are observed south of Van Doren Avenue, adjacent to the railroad tracks. There appear to be several areas of elevation change based on observed shadows. South Clark Avenue extends to the railroad tracks. Kirby Avenue is unchanged from 1940. The drainage culvert is observed, however, there appear to be less channels connecting to this culvert than were observed in 1940. Housing has increased dramatically north of the current Kirby Avenue location. South Auten Avenue is not observed.

1962

Subject Site - No soil disturbance is observed on-site and vehicles are observed at the east and west perimeters of the site. Kirby Avenue does not appear to extend west across the subject site. All previously noted buildings are observed.

Offsite - The properties to the north, west and south are the same as in 1954. The area east of the subject site remains unchanged. Kirby Avenue is completed to Adamsville Road. The drainage culvert is observed south of Kirby Avenue, along with soil disturbance. Additional houses are noted north of Kirby Avenue.

1969-1970

Subject Site - All site features are the same as those observed on the 1962 aerial photograph.

Offsite - The properties to the west, north and south are unchanged. A new structure is noted south of Kirby, South Auten and South Richards Avenues (the current Baker & Taylor facility). A new building is observed south of the railroad tracks and east of the drainage culvert (the current Egan Machinery facility). The drainage channels are no longer observed between the subject site and the Baker & Taylor site and ground disturbance is minimal suggesting areas seeded with grass or sod.

REMEDIAL INVESTIGATION ADDENDUM REPORT

Property Known As:

F. Sharp Screw
Somerville, New Jersey
ISRA Case Nos. 85647, 85648 & 85649

Prepared for:

Litgo of New Jersey, Inc.
17 Bon Aire Circle
Suffern, New York 10901

February 25, 1998

Submitted by:

Environmental Waste Management Associates, LLC
100 Misty Lane, P.O. Box 5430
Parsippany, New Jersey 07054
EWMA Case No. 88106

VOLUME 2 0F 3

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Client/Project: EWMA/F-SHARP SCREW

Lab ID: 3672-001
Client ID: TB
Date Received: 09/08/97
Date Analyzed: 09/08/97
Data file: G1711.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: A-µg/L (ppb)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	MDL
Chloromethane	ND		1
Vinyl Chloride	ND		1
Bromomethane	ND		1
Chloroethane	ND		1
Trichlorofluoromethane	ND		1
1,1-Dichloroethene	ND		1
Methylene Chloride	ND		2
trans-1,2-Dichloroethene	ND		1
1,1-Dichloroethane	ND		1
Chloroform	ND		1
1,1,1-Trichloroethane	ND		1
Carbon Tetrachloride	ND		1
1,2-Dichloroethane	ND		1
Benzene	ND		0.5
Trichloroethene	ND		1
1,2-Dichloropropane	ND		1
Bromodichloromethane	ND		1
2-Chloroethyl Vinyl Ether	ND		1
cis-1,3-Dichloropropene	ND		1
Toluene	ND		1
trans-1,3-Dichloropropene	ND		1
1,1,2-Trichloroethane	ND		1
Tetrachloroethene	ND		1
Dibromochloromethane	ND		1
Chlorobenzene	ND		1
Ethylbenzene	ND		1
Total Xylenes	ND		1
Bromoform	ND		1
1,1,2,2-Tetrachloroethane	ND		1
1,3-Dichlorobenzene	ND		1
1,4-Dichlorobenzene	ND		1
1,2-Dichlorobenzene	ND		1

Total target Compounds: 0

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Client/Project: EWMA/F-SHARP SCREW

Lab ID: 3672-002
Client ID: MW-11
Date Received: 09/08/97
Date Analyzed: 09/09/97
Data file: G1739.D

GC/MS Column: DB-624
Sample wt/vol: 0.001mL
Matrix-Units: A-µg/L (ppb)
Dilution Factor: 5000
% Moisture: 100

Compound	Concentration	Q	MDL
Chloromethane	ND		5000
Vinyl Chloride	ND		5000
Bromomethane	ND		5000
Chloroethane	ND		5000
Trichlorofluoromethane	ND		5000
1,1-Dichloroethene	ND		5000
Methylene Chloride	ND		10000
trans-1,2-Dichloroethene	ND		5000
1,1-Dichloroethane	ND		5000
Chloroform	ND		5000
1,1,1-Trichloroethane	ND		5000
Carbon Tetrachloride	ND		5000
1,2-Dichloroethane	ND		5000
Benzene	ND		2500
Trichloroethene	253000		5000
1,2-Dichloropropane	ND		5000
Bromodichloromethane	ND		5000
2-Chloroethyl Vinyl Ether	ND		5000
cis-1,3-Dichloropropene	ND		5000
Toluene	ND		5000
trans-1,3-Dichloropropene	ND		5000
1,1,2-Trichloroethane	ND		5000
Tetrachloroethene	ND		5000
Dibromochloromethane	ND		5000
Chlorobenzene	ND		5000
Ethylbenzene	ND		5000
Total Xylenes	ND		5000
Bromoform	ND		5000
1,1,2,2-Tetrachloroethane	ND		5000
1,3-Dichlorobenzene	ND		5000
1,4-Dichlorobenzene	ND		5000
1,2-Dichlorobenzene	ND		5000

Total target Compounds: 253000

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Client/Project: EWMA/F-SHARP SCREW

Lab ID: 5034-019
Client ID: MW-9
Date Received: 11/25/97
Date Analyzed: 11/26/97
Data file: G3630.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: A-µg/L (ppb)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	MDL
Chloromethane	ND		1
Vinyl Chloride	ND		1
Bromomethane	ND		1
Chloroethane	ND		1
Trichlorofluoromethane	ND		1
1,1-Dichloroethene	ND		1
Methylene Chloride	ND		2
trans-1,2-Dichloroethene	ND		1
1,1-Dichloroethane	ND		1
Chloroform	ND		1
1,1,1-Trichloroethane	ND		1
Carbon Tetrachloride	ND		1
1,2-Dichloroethane	ND		1
Benzene	ND		0.5
Trichloroethene	48.2		1
1,2-Dichloropropane	ND		1
Bromodichloromethane	ND		1
2-Chloroethyl Vinyl Ether	ND		1
cis-1,3-Dichloropropene	ND		1
Toluene	ND		1
trans-1,3-Dichloropropene	ND		1
1,1,2-Trichloroethane	ND		1
Tetrachloroethene	ND		1
Dibromochloromethane	ND		1
Chlorobenzene	ND		1
Ethylbenzene	ND		1
Total Xylenes	ND		1
Bromoform	ND		1
1,1,2,2-Tetrachloroethane	ND		1
1,3-Dichlorobenzene	ND		1
1,4-Dichlorobenzene	ND		1
1,2-Dichlorobenzene	ND		1

Total target Compounds: 48.2

INTEGRATED ANALYTICAL LABORATORIES

VOLATILE ORGANICS

Client/Project: EWMA/F-SHARP SCREW

Lab ID: 5034-020
Client ID: MW-11
Date Received: 11/25/97
Date Analyzed: 11/26/97
Data file: G3663.D

GC/MS Column: DB-624
Sample wt/vol: 0.001mL
Matrix-Units: A-µg/L (ppb)
Dilution Factor: 5000
% Moisture: 100

Compound	Concentration	Q	MDL
Chloromethane	ND		5000
Vinyl Chloride	ND		5000
Bromomethane	ND		5000
Chloroethane	ND		5000
Trichlorofluoromethane	ND		5000
1,1-Dichloroethene	ND		5000
Methylene Chloride	ND		10000
trans-1,2-Dichloroethene	ND		5000
1,1-Dichloroethane	ND		5000
Chloroform	ND		5000
1,1,1-Trichloroethane	ND		5000
Carbon Tetrachloride	ND		5000
1,2-Dichloroethane	ND		5000
Benzene	ND		2500
Trichloroethene	229000		5000
1,2-Dichloropropane	ND		5000
Bromodichloromethane	ND		5000
2-Chloroethyl Vinyl Ether	ND		5000
cis-1,3-Dichloropropene	ND		5000
Toluene	ND		5000
trans-1,3-Dichloropropene	ND		5000
1,1,2-Trichloroethane	ND		5000
Tetrachloroethene	ND		5000
Dibromochloromethane	ND		5000
Chlorobenzene	ND		5000
Ethylbenzene	ND		5000
Total Xylenes	ND		5000
Bromoform	ND		5000
1,1,2,2-Tetrachloroethane	ND		5000
1,3-Dichlorobenzene	ND		5000
1,4-Dichlorobenzene	ND		5000
1,2-Dichlorobenzene	ND		5000

Total target Compounds: 229000

EXHIBIT V

IN THE UNITED STATES BANKRUPTCY COURT
FOR THE DISTRICT OF DELAWARE

In re:	)	Chapter 11
	)	
W.R. GRACE & CO., et al.,	)	Case No. 01-1139 (JKF)
	)	
Debtors.	)	
	)	

RESPONSES OF MIAN REALTY, LLC TO DEBTORS' FIRST REQUEST FOR PRODUCTION OF DOCUMENTS AND FIRST SET OF INTERROGATORIES

TO: Lori Sinanyan, Esq.
Kirkland & Ellis
200 East Randolph Drive
Chicago, IL 60601
Attorneys for Debtors and Debtors in Possession

Mian Realty, LLC ("Mian"), by and through its counsel, Trenk, DiPasquale, Webster, Della Fera & Sodono, P.C., hereby responds to the First Request of W.R. Grace & Co., *et al.* (collectively, "Debtors") For Production of Documents and Debtors' First Set of Interrogatories as follows:

GENERAL OBJECTIONS

1. Mian objects to the discovery requests to the extent that Debtors seek information concerning matters not relevant to the allegations set forth in the pleadings or the matters in dispute in this action or discovery not reasonably calculated to lead to the discovery of admissible evidence.

2. Mian objects to the discovery requests to the extent that they are overly broad, vague, ambiguous, unduly burdensome, cumulative, duplicative, or obtainable from some other source that is more convenient, less burdensome, or less expensive.

3. Mian objects to the discovery requests to the extent that they cause undue burden or expense.

remediation occurring on Litgo's real property, however. Because he does not own the Litgo property and because he has no knowledge of events that have occurred on that property, Mian has taken no actions in response to such events.

7. Mian was not notified, directly or indirectly, by the New Jersey Department of Environmental Protection or any other person that pollution from the Litgo property might or may have emanated or contaminated the Mian property.

8. Dr. Mian first learned through the news media of the Debtors' bankruptcy filing. He does not recall exactly when he first learned of the bankruptcy filing.

9. See Document Request Responses 1 and 3.

10. Dr. Bilal Mian.

TRENK, DiPASQUALE, WEBSTER, DELLA FERA & SODONO, P.C.
Attorneys for Mian Realty, LLC

By: _____
HENRY M. KARWOWSKI

Dated: June 10, 2008

CERTIFICATION

As the managing member, and on behalf of Mian Realty, LLC, I certify that I have read the foregoing Responses of Mian Realty, LLC to Debtors' First Request For Production of Documents and First Set of Interrogatories. Based upon matters which are known to me for the purposes of making this Certification, I state that I am informed and I believe that the matters stated are true and correct.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements are willfully false, I am subject to punishment.

By: _____
BILAL MIAN, MD

Dated: June 10, 2008

F:\WPDOCS\a-M\Mian Realty, LLC\DiscResponse.doc

EXHIBIT W

JM Sorge, Inc.
Environmental Consultants

50 County Line Road, Somerville, NJ 08876-3467 • (908) 218-0066
Fax (908) 218-9185 • www.jmsorge.com

December 20, 2004

Via Federal Express

Mr. Murdo Morrison, Case Manager
New Jersey Department of Environmental Protection
Bureau of Northern Case Management
401 East State Street
PO Box 028
Trenton, New Jersey 08625-0028

Re: Response to NJDEP letter of December 14, 2004
F. Sharp Screw Site
Somerville, New Jersey
ISRA Case Nos. 85647, 85648, and 85649

Dear Mr. Morrison:

The following provides our submittal in response to the November 16, 2004 meeting with the Department as outlined in our previous letter dated November 23, 2004. Further, we are providing a response to the Department's latest correspondence, dated December 14, 2004 and received on December 20, 2004. We are also providing an accurate summary of the Litgo schedule to address schedule issues identified in the Department's correspondence.

The following provides a summary of the relevant history of the project regarding the project schedule.

November 14, 2002	Litgo submitted the Eastern Groundwater Plume RIW.
May 27, 2003	NJDEP responded to the November Litgo RIW with a conditional approval of the plan.
July 1, 2003	Litgo provided a response to NJDEP regarding the RIW incorporating the changes requested by the Department. There was no response from NJDEP to the July letter.
August 1, 2003	Litgo requested a schedule extension to allow Kvaerner time to complete and evaluate a tracer dye test of various Litgo wells. The extension requested included a 3 to 6 month period after receipt of the final tracer study results to modify the Litgo RIW. NJDEP accepted the extension request. As part of a Litgo / Kvaerner access agreement,

	Kvaerner was to provide Litgo with a copy of the final tracer study report when it became available. Kvaerner only provided the preliminary results to Litgo after the Litgo / NJDEP meeting on November 16, 2004. To date, Litgo has not received the final Kvaerner report.
September 2003	Litgo submitted the Historical Data Review Report in response to a draft letter from NJDEP dated April 10, 2002, requesting this additional investigation.
June 30, 2004	Litgo submitted the Remedial Investigation Report and Workplan for the Western groundwater plume.
August 2004	Litgo completed the Radiological Characterization Survey of the site. The Radiological Scoping Survey Report was submitted to the Department on August 31, 2004.
August 2004	Kvaerner failed to comply with its access agreement with Litgo because they did not provide a copy of the Tracer test results to Litgo as required. NJDEP informed Litgo by telephone that, in a recent meeting with NJDEP, Kvaerner accused Litgo of being the sole source of groundwater contamination. Litgo was not provided with a copy of the presentation or any opportunity to refute the Kvaerner theory.
November 10, 2004	NJDEP letter to Litgo implies that Litgo has failed to meet its schedule.
November 16, 2004	Litgo meeting with NJDEP. Litgo is informed that the Kvaerner preliminary report was provided to NJDEP, Litgo requested a copy. Litgo agrees to move ahead with the Eastern RI plan, to the extent possible. NJDEP agrees to provide a new letter to Somerville indicating that site development can proceed with some conditions.
November 17, 2004	NJDEP letter to Somerville indicating that the No Further Action approval for site soils remains valid and construction can proceed.
November 18, 2004	Kvaerner provides a copy of a preliminary report without supporting data or calculation which purports to show that Kvaerner has not contributed to the VOC plume beneath their site. Litgo has not received the final Kvaerner report with supporting technical documentation or calculations. Litgo has not been advised by NJDEP that the final report has been submitted for NJDEP review. Litgo can not modify the RIW based on a preliminary report only.
November 23, 2004	Litgo provides a summary of activities to be completed in response to the Department's November 17, 2004 letter by the December 20, 2004.
December 14, 2004	NJDEP letter received by Litgo on December 20, 2004.

Response to NJDEP letter of December 14, 2004

Item 1: Litgo Approved Schedule

NJDEP was aware of Litgo's schedule extension request to allow Kvaerner to complete the tracer study as confirmed in the November 10, 2004 letter. Therefore the Department knew that the Eastern plume investigation was on hold, contrary to comments provided in the December 20,

ethane, methane, nitrate, nitrite, sulfate, sulfide, iron, manganese, phosphorous and chloride. The presence of the light hydrocarbons (ethene, ethane, and methane) was analyzed by utilizing USEPA Method 3810. Priority Pollutant Metals were analyzed for by USEPA Method 200.7/245.1, the reducing species nitrate, nitrite, sulfate, and sulfide were analyzed for by USEPA Method 352.1, 354.1, 375.4, and 377.1, respectively. The presence of phosphorous was analyzed for using USEPA Method 365.3 and the presence of chloride was analyzed for utilizing USEPA Method 325.2.

The groundwater sampling results are expected by mid January at which time the data will be interpreted and summarized. A groundwater investigation report will be provided to the Department by mid February, in accordance with the project schedule. The report will summarize the December 2004 sampling event in detail and include groundwater contours, data tables, field measurements and conclusions regarding the December 2004 groundwater sampling event.

SLUG TEST SUMMARY

On December 1 and 2, 2004 Litgo conducted slug testing in five onsite and offsite bedrock groundwater monitoring wells to determine the general hydraulic conductivity (K) of the bedrock aquifer in the vicinity of the eastern groundwater plume. The slug testing was conducted at existing bedrock Monitoring Wells MW-4R, MW-5, MW-5A, MW-11 and MW-13. The eastern plume slug test summary is included as Appendix A.

BASELINE ECOLOGICAL EVALUATION

The Baseline Ecological Evaluation (BEE) for this site has been completed and updated and is provided as Appendix B to this report.

REMEDIAL INVESTIGATION SCHEDULE

The Remedial Investigation schedule for the approved workplan has been revised in accordance with the Department's request. The revised schedule is included as Appendix C to this report.

KVAERNER INVESTIGATION

We have received a copy of the Preliminary Remedial Action Report for Groundwater from the Source Group on behalf of Kvaerner. Litgo has not received the Final Remedial Investigation Report including the technical information required to support Kvaerner's conceptual conclusions. Litgo is currently reviewing the preliminary report which will be incorporated into the detailed RIW revision as indicated on the project schedule, assuming that the final report is submitted to NJDEP and made available.

EXHIBIT X

JM Sorge, Inc.
Environmental Consultants

50 County Line Road, Somerville, NJ 08876-3467 • (908) 218-0066
Fax (908) 218-9185 • www.jmsorge.com

February 28, 2005

Via First Class Mail

Dr. Bilal A. Mian
Mian Realty Associates
310 East Main Street
Somerville, New Jersey 08867

Re: **Access to Install Monitoring Wells**
6 Kirby Avenue → Block 1 Lot 4.02
Somerville, New Jersey

Dear Dr. Mian:

JM Sorge, Inc. is the environmental consultant for the adjacent property owner, Litgo NJ (Sheldon Goldstein). In response to a letter recently issued by the New Jersey Department of Environmental Protection (NJDEP), Litgo NJ has proposed to perform additional investigation work in the rear and central portions of the property at 6 Kirby Avenue. This corresponds to areas north and east of existing monitoring well MW-11. We have planned to perform the work from March 7 to March 11, 2005.

The work will consist of the installation of four (4) vapor monitoring wells and three (3) groundwater monitoring wells. Each well will be approximately 4 inches in diameter, and will be installed through the asphalt to a depth where groundwater or bedrock are encountered. The installation of the wells will require the use of a air rotary drill rig and associated equipment at each of the proposed locations, as a result some of the parking area may have to be temporarily cordoned off. Following completion of the drilling, the well will be finished with a flush mount well cover, similar to the wells that have previously been installed in the parking lot. Drill cuttings will be drummed and stored on an on-site location prior to proper characterization and disposal. Following characterization the drummed materials will be promptly removed. It is anticipated that this event will be completed in approximately 3 or 4 days. The activities will be conducted such that any inconvenience for building occupants is minimized. If we don't hear from you by the end of the end of next week, Friday March 4, we will assume that the well installation can proceed as scheduled.

We would like to assure you that we are working diligently with the NJDEP to resolve the environmental matters at the adjacent property. Should you have any additional questions regarding this project please do not hesitate to call me at 908-218-0066 ext. 43. Thank you for your cooperation in this matter.

Yours truly,

Matthew Hammerstone
Environmental Scientist

cc: Dave Thompson, JM Sorge, Inc.

000069

M000085

EXHIBIT Y

REMEDIAL INVESTIGATION REPORT

FORMER F SHARP SCREW FACILITY
SOMERVILLE, NEW JERSEY
ISRA CASE Nos. E85647, E85648, E85649

Prepared For:

Litgo of New Jersey, Inc.
Four Executive Boulevard
Suffern, New York 10901

Prepared By:

JM Sorge, Inc.
50 County Line Road
Somerville, New Jersey 08876

January 20, 2006

2000.100

water-bearing zones of the Passaic Formation depends on the number and width of vertical fractures present.

Regional bedrock groundwater flow is strongly controlled by the structural features within the bedrock formations. Groundwater in the Passaic Formation Aquifer is generally found under unconfined, water-table conditions and confined conditions where aquicludes are present. Production wells installed in this aquifer typically yield approximately 100 gallons per minute (gpm), but yields as high as 600 gpm have been reported. The formation is generally anisotropic with respect to response to pumping with maximum drawdown measured parallel to the strike of the Passaic Formation. Relatively large drainage areas such as the Raritan River serve as discharge areas for the Passaic Formation bedrock groundwater.

3.2.3 Site-Specific Hydrogeology

Overburden and fill are present across the entire Site. The thickness of the overburden/fill is consistent throughout the eastern and western portions of the Site. The overburden generally consists of reddish-brown silt and fine sand, silty clay, and clay, with finer-grained soils more prevalent. The Passaic Formation bedrock exists underneath the Site at depths ranging from four to six feet below ground surface.

In general, the lithology of the bedrock consists of red-brown shale, siltstone, and mudstone that is weathered to varying degrees. Video logging of the wells indicates that most fractures are minor in nature and sub-horizontal, corresponding to bedding planes. Some occasional vertical fracturing is observed, however these fractures are generally very small and filled with calcite and/or gypsum.

The depth to groundwater averages approximately 38 to 40 feet across the Site. Historically, there has been an apparent mounded area in the vicinity of the MW-5, 5A, 5B, well cluster. The mound extends to MW-11 to the east and onto the Egan Machinery Site to the south. This mound is consistent with the trace of the old stream bed identified from historic aerial photos. The mounded area in the vicinity of MW-5, 5A, 5B well cluster is believed to be caused by the leaky casing at former MW-5. The mounded area formerly extended to MW-4 to the west, but its actual presence in this area is suspect because of the anomalously high water levels and poor condition of this former well. Since the recent abandonment of MW-5 water levels have dropped approximately 5 feet, indicating that the casing was likely leaking and causing the high water levels. However, perched water in the shallow bedrock is present in the vicinity of MW-11 and is indicated by the newly installed vapor point wells VP-1 through VP-4. The abandonment of MW-5 is discussed further in Section 4.0 of this report.

The abandonment of monitoring well MW-4 and installation of replacement monitoring well MW-4R has confirmed that the elevated water levels historically observed in MW-4 were due to the lack of any grout seal. Since the installation of the replacement well the general water level elevation has dropped from approximately 70 feet above sea level to 40 feet. The abandonment and installation activities are discussed in detail in the Section 6.0 of the Remedial Investigation Report - Western and Central Groundwater, dated July 13, 2001.

for the presence of VOCs utilizing a photo-ionization detector (PID). Elevated PID reading were encountered during the installation of MW-11A, and given its proximity to MW-11 the soil cuttings and water were drummed. During the installation of the remaining wells, no elevated PID readings were encountered. Since no elevated PID readings were encountered, the spoils were incorporated into the existing site soils. The bedrock groundwater monitoring well permits, construction details, well records, NJDEP Well Forms A & B, and boring logs are provided in Appendix B. Disposal manifests are provided in Appendix C.

During 2005 Litgo installed, developed, and surveyed 13 new bedrock groundwater monitoring wells to further the delineation of TCE at the Site. The locations of the additional bedrock groundwater monitoring wells are identified on Figure 2. Two replacement wells were installed, the replacement well for MW-5 is designated MW-5R, the replacement well for MW-6 is designated MW-6R. The other eleven new bedrock groundwater monitoring wells are designated MW-6A, MW-11A, MW-20, MW-21, MW-22, MW-23, and MW-24 and Vapor Points VP-1 through VP-4. MW-6A was installed to provide vertical delineation near MW-6R. Monitoring well MW-11A was installed adjacent to existing well MW-11 to vertically delineate the elevated concentrations of TCE detected in MW-11. MW-11A was installed as an open hole well from 80 to 100 feet below the ground surface. Monitoring well MW-20 was installed to provide horizontal delineation of the concentrations in MW-6R and MW-8. Monitoring well MW-21 was installed adjacent to MW-13 to delineate the shallow groundwater in this area. Monitoring well MW-22 was installed as a shallow well down strike of MW-13 and completed as an open hole well from 30 to 50 feet below the ground surface. Monitoring well MW-23 was installed between existing wells MW-10 and the MW-5 well cluster and was completed as an open hole well from 30 to 50 feet below the ground surface. Monitoring well MW-24 was installed in May 2005, near the outfall of the 20-inch pipe located south of the MW-5 well cluster and completed as an open hole well from 18 to 38 feet below the ground surface. Figures 3 and 4 illustrate the August and September 2005 bedrock groundwater contours at the Site.

The replacement well for MW-6 now designated MW-6R, was installed in the bedrock water-bearing zone to an approximate total depth of 60 feet below ground surface with 20 feet of open hole. Approximately 40 feet of bedrock were cased off by installing 6-inch diameter steel casing inside a 10-inch diameter borehole drilled to 40 feet below ground surface. The steel casing was grouted into place by the tremie method. The intermediate bedrock monitoring well MW-6A was drilled to a total depth of 95 feet below the ground surface and finished with 20 feet of open-hole from 95 to 75 feet bgs. A 6-inch steel casing was installed from 75 feet to the ground surface and grouted in place. A New Jersey-licensed well driller installed both monitoring wells and abandoned the existing well in accordance with applicable guidelines for bedrock monitoring well construction and abandonment. A summary of the well completion details of the existing groundwater monitoring wells is presented in Table 1.

Litgo installed the remaining wells in the bedrock aquifer with approximately 20 feet of 6-inch diameter steel casing, with 20 feet of open hole. Only MW-11A was double cased such that the open hole zone in MW-11 was cased off by installing 10-inch diameter steel casing inside a 14-inch diameter borehole drilled to approximately 62 feet below ground surface. The steel casing was grouted into place by the tremie method. Upon completion, the newly installed groundwater monitoring wells were developed to a sediment free discharge in order to facilitate hydraulic

SWR-133M-6
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

250uu649167
+U
250000649 73

MONITORING WELL PERMIT

Permit No. _____

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 25.32.833

Owner: Sian Realty
Address: 5 Kirby Avenue
Somerville, NJ 08876
Name of Facility: Same
Address: _____

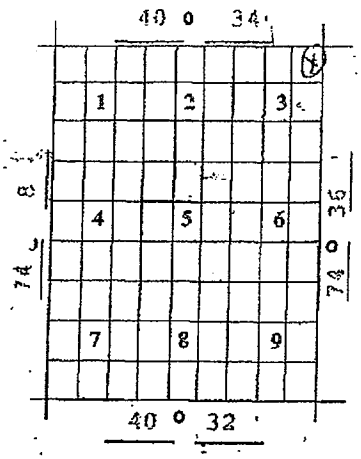
Driller: Samuel Stothoff Co., Inc.
Address: PO Box 306
Flemington, NJ 08822

Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	50 Feet
# of Wells Applied for (max. 10)	7	Will pumping equipment be utilized?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

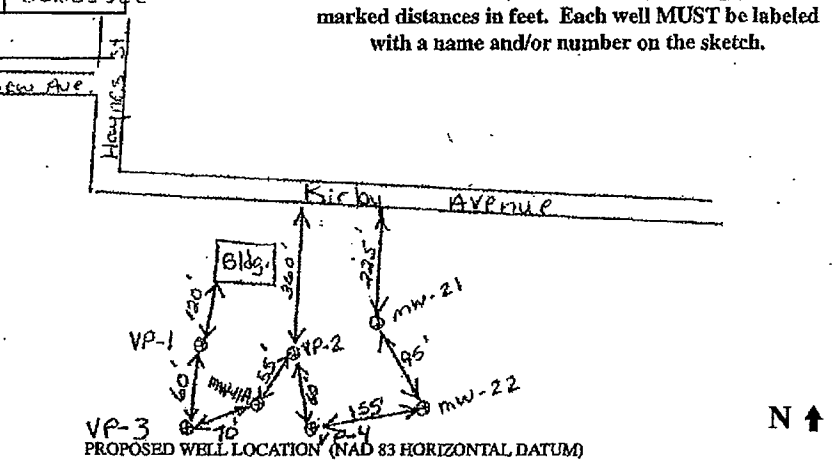
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
4.02	1	Somerville	Somerset

State Atlas Map No. 25



Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: ___ ' ___ " LONGITUDE: ___ ' ___ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☒ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number
E85-647-648-649

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. DEP
FEB 25 2005
BUREAU OF WATER ALLOCATION

FOR D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☒ For monitoring purposes only ☐ _____

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 2-18-05 Signature of Driller _____ Registration No. 10851

Signature of Property Owner Matt Hennessy as agent for owner

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
2500064967

MONITORING WELL RECORD

Atlas Sheet Coordinates
2532833

OWNER IDENTIFICATION MIAN REALTY

Address 6 KIRBY AVE

ity Somerville State New Jersey Zip Code 08876

WELL LOCATION - If not the same as owner please give address Owner's Well No. VP-1

ounty Somerset Municipality Somerville Boro Lot No. 4.02 Block No. 1

Address 6 KIRBY AVE

'ELL USE Monitoring

DATE WELL STARTED 3/11/05

DATE WELL COMPLETED 3/15/05

'ELL CONSTRUCTION

Total Depth Drilled 36 ft.

nished Well Depth 36 ft.

orehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade

☒ flush mounted

finished above grade, casing height (stick up) above land surface ____ ft.

eel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 18 ft.

ater Level was Measured Using m-scope

Well was developed for 1 hours

1/2 gpm

method of development Submersible pump

Pump Capacity ____ gpm

mp Type ____

Drilling Fluid air Type of Rig Reichdrill 650

ealth and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	16	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole	16	36	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	16	10x6	Neat Cement Bentonite	470 lbs 25 lbs

Grouting Method Pressure grout w/tremie

Drilling Method Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 4' Fill
4' - 6' Shale & clay
6' - 36' Shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State laws and regulations.

Drilling Company SAMUEL STOTHOFF CO INC

ell Driller (Print) Jim Hall

Driller's Signature Jim Hall

egistration No. 1469 Date 4/19/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: ____ EASTING: ____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

RIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number: 2500064968
Atlas Sheet Coordinates: 2532833

WNER IDENTIFICATION: MIAN REALTY

Address: 6 KIRBY AVE

ity: Somerville State: New Jersey Zip Code: 08876

WELL LOCATION - If not the same as owner please give address Owner's Well No.: VP-2

ounty: Somerset Municipality: Somerville Boro Lot No.: 4.02 Block No.: 1

ddress: 6 KIRBY AVE

ELL USE: Monitoring

DATE WELL STARTED: 3/11/05

DATE WELL COMPLETED: 3/15/05

ELL CONSTRUCTION

otal Depth Drilled: 36 ft.

Finished Well Depth: 36 ft.

orehole Diameter:

Top: 10 in.

Bottom: 6 in.

well was finished: ☐ above grade ☒ flush mounted

finished above grade, casing height (stick up) above land surface: - ft.

eel protective casing installed? ☐ Yes ☒ No

Static Water Level after drilling: 18 ft.

ater Level was Measured Using: m-scope

Well was developed for: 1 hours

: 1/2 gpm

ethod of development: Submersible pump

Pump Capacity: gpm

mp Type:

Drilling Fluid: Air Type of Rig: Reichdrill 650

alth and Safety Plan Submitted? ☒ Yes ☐ No

vel of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	16	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole	16	36	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	16	10x6	Neat Cement Bentonite	470 lbs 25 lbs

Grouting Method: Pressure grout w/tremie

Drilling Method: Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 4' Fill
4' - 5' Broken shale
5' - 36' Shale

Water at 20'

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State laws and regulations.

Drilling Company: SAMUEL STOTHOFF CO INC

ell Driller (Print): Jim Hall

Driller's Signature: Jim Hall

Registration No.: 1469J Date: 4/19/05

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
2500064969

MONITORING WELL RECORD

Atlas Sheet Coordinates
2532833

OWNER IDENTIFICATION MIAN REALTY

Address 6 KIRBY AVE

City Somerville State New Jersey Zip Code 08876

WELL LOCATION - If not the same as owner please give address Owner's Well No. VP-3

County Somerset Municipality Somerville Boro Lot No. 4.02 Block No. 1

Address 6 KIRBY AVE

WELL USE Monitoring

DATE WELL STARTED 3/14/05

DATE WELL COMPLETED 3/15/05

WELL CONSTRUCTION

Total Depth Drilled 36 ft.

Finished Well Depth 36 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface - ft.

Steel protective casing installed?
☐ Yes ☒ No

Static Water Level after drilling 20 ft.

Water Level was Measured Using m-scope

Well was developed for 1 hours

1/2 gpm

Method of development Submersible pump

Pump Capacity _____ gpm

Pump Type _____

Drilling Fluid Air Type of Rig Reichdrill 650

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	16	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole	16	36	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	16	10x6	Neat Cement Bentonite	470 lbs 25 lbs

Grouting Method Pressure grout w/tremie

Drilling Method Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 3' Fill
3' - 6' Clay
6' - 36' Shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SAMUEL STOTHOFF CO INC

Well Driller (Print) Jim Hall

Driller's Signature Jim Hall

Registration No. 1409J Date 4/19/05

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP COPIES: DRILLER OWNER HEALTH DEPARTMENT

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
2500064970
Atlas Sheet Coordinates
2532833

WNER IDENTIFICATION MIAN REALTY

Address 6 KIRBY AVE

ity Somerville State New Jersey Zip Code 08876

WELL LOCATION - If not the same as owner please give address Owner's Well No. VP-4

ounty Somerset Municipality Somerville Boro. Lot No. 4.02 Block No. 1

ddress 6 KIRBY AVE

ELL USE Monitoring

DATE WELL STARTED 3/14/05

DATE WELL COMPLETED 3/15/05

ELL CONSTRUCTION

otal Depth Drilled 36 ft.

inished Well Depth 36 ft.

orehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☒ flush mounted

finished above grade, casing height (stick up) above land surface - ft.

eel protective casing installed? ☐ Yes ☒ No

Static Water Level after drilling 18 ft.

ater Level was Measured Using m-scope

Well was developed for 1 hours

1/2 gpm

ethod of development Submersible pump

Pump Capacity ____ gpm

mp Type ____

Drilling Fluid air Type of Rig Reichdrill 650

alth and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	16	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole	16	36	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	16	10x6	Neat Cement Bentonite	470 lbs 25 lbs

Grouting Method Pressure grout w/tremie

Drilling Method Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 3' Fill
3' - 5' Clay
5' - 36' Shale

Water at 20'

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: ____ EASTING: ____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State laws and regulations.

Drilling Company SAMUEL STOTHOFF CO INC

ell Driller (Print) Jim Hall

Driller's Signature Jim Hall

Registration No. 14690 Date 4/19/05

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
2500064971

MONITORING WELL RECORD

Atlas Sheet Coordinates
2532833

OWNER IDENTIFICATION MIAN REALTY

Address 6 KIRBY AVE

City Somerville State New Jersey Zip Code 08876

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-21

County Somerset Municipality Somerville Boro Lot No. 4.02 Block No. 1

Address 6 KIRBY AVE

WELL USE Monitoring

DATE WELL STARTED 3/9/05

DATE WELL COMPLETED 3/15/05

WELL CONSTRUCTION

Total Depth Drilled 50 ft.

Finished Well Depth 50 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface - ft.

Steel protective casing installed? ☐ Yes ☒ No

Static Water Level after drilling 25 ft.

Water Level was Measured Using m-scope

Well was developed for 1 hours

at 1/2 gpm

Method of development Submersible pump

Pump Capacity ____ gpm

Pump Type ____

Drilling Fluid Air Type of Rig Reichdrill 650

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	30	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole	30	50	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	30	10x6	Neat Cement Bentonite	846 lbs 50 lbs

Grouting Method Pressure grout w/tremie

Drilling Method Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 6" black top
6" - 5' Fill
5' - 6' Clay
6' - 50' Shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State laws and regulations.

Drilling Company SAMUEL STOTHOFF CO INC

Well Driller (Print) Jim Hall

Driller's Signature Jim Hall

Registration No. 1460J Date 4/19/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: ____ EASTING: ____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP COPIES: DRILLER OWNER HEALTH DEPARTMENT

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number: 2500064972

Atlas Sheet Coordinates: 2532833

OWNER IDENTIFICATION: MIAN REALTY

Address: 6 KIRBY AVE

City: Somerville State: New Jersey Zip Code: 08876

WELL LOCATION - If not the same as owner please give address — Owner's Well No.: MW-22

County: Somerset Municipality: Somerville Boro Lot No.: 4.02 Block No.: 1

Address: 6 KIRBY AVE

WELL USE: Monitoring

DATE WELL STARTED: 3/8/05

DATE WELL COMPLETED: 3/9/05

WELL CONSTRUCTION

Total Depth Drilled: 50 ft.

Finished Well Depth: 50 ft.

Borehole Diameter:

Top: 10 in.

Bottom: 6 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface: - ft.

Steel protective casing installed? ☐ Yes ☒ No

Static Water Level after drilling: 25 ft.

Water Level was Measured Using: m-scope

Well was developed for: 1 hours

Yield: 1/2 gpm

Method of development: submersible pump

Pump Capacity: _____ gpm

Pump Type: air

Drilling Fluid: _____ Type of Rig: Reichdrill 650

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one): None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	30	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole	30	50	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	30	10x6	Neat Cement Bentonite	564 lbs 50 lbs

Grouting Method: Pressure grout w/tremie

Drilling Method: Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 9' Cinders & gravel
9' - 11' Clay
11' - 50' Shale

Water at 33' 35'

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State laws and regulations.

Drilling Company: SAMUEL STOTHOFF CO INC

Well Driller (Print): Jim Hall

Driller's Signature: Jim Hall

Registration No.: 1469J Date: 4/19/05

ORIGINAL: DEP COPIES: DRILLER OWNER HEALTH DEPARTMENT

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
2500064973

MONITORING WELL RECORD

Atlas Sheet Coordinates
2532833

WNER IDENTIFICATION MIAN REALTY

Address 6 KIRBY AVE

ty Somerville State New Jersey Zip Code 08876

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-11A

unty Somerset Municipality Somerville Boro Lot No. 4.02 Block No. 1

Address 6 KIRBY AVE

ELL USE Monitoring

DATE WELL STARTED 3/10/05

DATE WELL COMPLETED 3/15/05

ELL CONSTRUCTION

Total Depth Drilled 100 ft.

nished Well Depth 100 ft.

orehole Diameter:

Top 15¼" in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

finished above grade, casing height (stick up) above land surface - ft.

eel protective casing installed?
☐ Yes ☒ No

Static Water Level after drilling 25 ft.

ater Level was Measured Using m-scope

Well was developed for 1 hours

2 gpm

ethod of development Submersible pump

Pump Capacity ____ gpm

mp Type ____

Drilling Fluid air Type of Rig Reichdrill 650

alth and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	80	6	Steel	19/40S
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	60	10	Steel	40/40S
Open Hole	80	100	6		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0 0	60 80	15¼x10 10x6	Neat Cement Bentonite	4324 lbs 230 lbs

Grouting Method Pressure grout w/tremie

Drilling Method Air rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0' - 4' Fill
4' - 6' Clay & shale
6' - 100' Shale

Water at 95'

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: ____ EASTING: ____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State laws and regulations.

Drilling Company SAMUEL STOTHOFF CO INC

ell Driller (Print) Jim Hall

Driller's Signature Jim Hall

gistration No. 1489J Date 4/19/05

RIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

EXHIBIT Z

Ground Water Quality Standards N.J.A.C. 7:9C

Appendix Table 1 - Specific Ground Water Quality Criteria

Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels

Constituent	CASRN	Ground Water Quality Criterion	Practical Quantitation Level (PQL) *	Higher of PQL and Ground Water Quality Criterion (ug/L)*
Acenaphthene	83-32-9	400	10	400
Acetone	67-64-1	6,000	10	6,000
Acetophenone	98-86-2	700	10	700
Acrolein	107-02-8	4	5	5
Acrylamide	79-06-1	0.008	0.2	0.2
Acrylonitrile	107-13-1	0.06	2	2
Adipates (Di(2-ethylhexyl) adipate) (DEHA)	103-23-1	30	3	30
Alachlor	15972-60-8	0.4	0.1	0.4
Aldicarb sulfone	1646-88-4	7	0.3	7
Aldrin	309-00-2	0.002	0.04	0.04
Aluminum	7429-90-5	200	30	200
Ammonia (Total)	7664-41-7	3,000	200	3,000
Aniline	62-53-3	6	2	6
Anthracene	120-12-7	2,000	10	2,000
Antimony (Total)	7440-36-0	6	3	6

Arsenic (Total)	7440-38-2	0.02	3	3
Asbestos	1332-21-4	7X10^{6}f/L>10um[a]	10^{6}f/L>10um[a]	7X10^{6}f/L>10um[a]
Atrazine	1912-24-9	3	0.1	3
Barium **	7440-39-3	6,000	200	6,000
Benz(a)anthracene	56-55-3	0.05	0.1	0.1
Benzene	71-43-2	0.2	1	1
Benzidine	92-87-5	0.0002	20	20
Benzo(a)pyrene (BaP)	50-32-8	0.005	0.1	0.1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.05	0.2	0.2
Benzo(k)fluoranthene	207-08-9	0.5	0.3	0.5
Benzoic acid	65-85-0	30,000	50	30,000
Benzyl alcohol	100-51-6	2,000	20	2,000
Beryllium	7440-41-7	1	1	1
alpha-BHC- (alpha-HCH)	319-84-6	0.006	0.02	0.02
beta-BHC (beta-HCH)	319-85-7	0.02	0.04	0.04
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.03	0.02	0.03
1,1-Biphenyl	92-52-4	400	10	400
Bis(2-chloroethyl) ether	111-44-4	0.03	7	7
Bis(2-chloroisopropyl) ether	108-60-1	300	10	300
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	2	3	3
Bromodichloromethane (Dichlorobromomethane)	75-27-4	0.6	1	1
Bromoform	75-25-2	4	0.8	4
n-Butanol (n-Butyl alcohol)	71-36-3	700	20	700
tertiary-Butyl alcohol (TBA)	75-65-0	100	2	100

Butylbenzyl phthalate	85-68-7	100	1	100
Cadmium	7440-43-9	4	0.5	4
Camphor	76-22-2	1,000	0.5	1,000
Carbofuran	1563-66-2	40	0.5	40
Carbon disulfide	75-15-0	700	1	700
Carbon tetrachloride	56-23-5	0.4	1	1
Chlordane	57-74-9	0.01	0.5	0.5
Chloride	16887-00-6	250,000	2,000	250,000
4-Chloroaniline (p-Chloroaniline)	106-47-8	30	10	30
Chlorobenzene (Monochlorobenzene)	108-90-7	50	1	50
Chloroform	67-66-3	70	1	70
2-Chloronaphthalene	91-58-7	600	10	600
2-Chlorophenol	95-57-8	40	20	40
Chlorpyrifos	2921-88-2	20	0.1	20
Chromium (Total)	7440-47-3	70	1	70
Chrysene	218-01-9	5	0.2	5
Color		10 CU	5 CU	10 CU
Copper	7440-50-8	1,300	4	1,300
Cumene (Isopropyl benzene)	98-82-8	700	1	700
Cyanide (free Cyanide)	57-12-5	100	6	100
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	70	2	70
Dalapon (2,2-Dichloropropionic acid)	75-99-0	200	0.1	200
4,4'-DDD (p,p'-TDE)	72-54-8	0.1	0.02	0.1
4,4'-DDE	72-55-9	0.1	0.01	0.1

4,4'-DDT	50-29-3	0.1	0.1	0.1
Demeton	8065-48-3	0.3	1	1
Dibenz(a,h)anthracene	53-70-3	0.005	0.3	0.3
Dibromochloromethane (Chlorodibromomethane)	124-48-1	0.4	1	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.02	0.02	0.02
Di-n-butyl phthalate	84-74-2	700	1	700
1,2-Dichlorobenzene (ortho)	95-50-1	600	5	600
1,3-Dichlorobenzene (meta)	541-73-1	600	5	600
1,4-Dichlorobenzene (para)	106-46-7	75	5	75
3,3-Dichlorobenzidine	91-94-1	0.08	30	30
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	2	1,000
1,1-Dichloroethane (1,1-DCA)	75-34-3	50	1	50
1,2-Dichloroethane	107-06-2	0.3	2	2
1,1-Dichloroethylene (1,1-DCE)	75-35-4	1	1	1
cis-1,2-Dichloroethylene	156-59-2	70	1	70
trans-1,2-Dichloroethylene	156-60-5	100	1	100
2,4-Dichlorophenol (DCP)	120-83-2	20	10	20
1,2-Dichloropropane	78-87-5	0.5	1	1
1,3-Dichloropropene (cis and trans)	542-75-6	0.4	1	1
Dieldrin	60-57-1	0.002	0.03	0.03
Diethyl phthalate	84-66-2	6,000	1	6,000
Diisodecyl phthalate (DIDP)	26761-40-0	100	3	100
Diisopropyl ether (DIPE)	108-20-3	20,000	5	20,000
2,4-Dimethyl phenol	105-67-9	100	20	100

2,4-Dinitrophenol	51-28-5	10	40	40
2,4-Dinitrotoluene/2,6-Dinitrotoluene Mix	25321-14-6	0.05	10	10
Di-n-octyl phthalate	117-84-0	100	10	100
Dinoseb	88-85-7	7	2	7
Diphenylamine	122-39-4	200	20	200
1,2-Diphenylhydrazine	122-66-7	0.04	20	20
Diquat	85-00-7	20	2	20
Endosulfan (alpha and beta)	115-29-7	40	0.1	40
alpha-Endosulfan (Endosulfan I)	959-98-8	40	0.02	40
beta-Endosulfan (Endosulfan II)	33213-65-9	40	0.04	40
Endosulfan sulfate	1031-07-8	40	0.02	40
Endothall	145-73-3	100	60	100
Endrin	72-20-8	2	0.03	2
Epichlorohydrin	106-89-8	4	5	5
Ethion	563-12-2	4	0.5	4
Ethyl acetate	141-78-6	6,000	10	6,000
Ethylbenzene	100-41-4	700	2	700
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.0004	0.03	0.03
Ethylene glycol	107-21-1	300	200	300
Ethylene glycol monomethyl ether	109-86-4	7	20,000	20,000
Ethyl ether	60-29-7	1,000	50	1,000
Fluoranthene	206-44-0	300	10	300
Fluorene	86-73-7	300	1	300
Fluoride	7782-41-4	2,000	500	2,000

Foaming agents (ABS/LAS)		500	0.5	500
Formaldehyde	50-00-0	100	30	100
Glyphosate	1071-83-6	700	30	700
Hardness (as CaCO3)		250,000	10,000	250,000
Heptachlor	76-44-8	0.008	0.05	0.05
Heptachlor epoxide	1024-57-3	0.004	0.2	0.2
Hexachlorobenzene	118-74-1	0.02	0.02	0.02
Hexachlorobutadiene	87-68-3	0.4	1	1
Hexachlorocyclopentadiene	77-47-4	40	0.5	40
Hexachloroethane	67-72-1	2	7	7
Hexane (n-Hexane)	110-54-3	30	5	30
Indeno (1,2,3-cd)pyrene	193-39-5	0.05	0.2	0.2
Iron	7439-89-6	300	20	300
Isophorone	78-59-1	40	10	40
Lead (Total)	7439-92-1	5	5	5
Malathion	121-75-5	100	0.6	100
Manganese	7439-96-5	50	0.4	50
Mercury (Total)	7439-97-6	2	0.05	2
Methanol	67-56-1	4,000	70	4,000
Methoxychlor	72-43-5	40	0.1	40
Methyl acetate	79-20-9	7,000	0.5	7,000
Methyl bromide (Bromomethane)	74-83-9	10	1	10
Methylene chloride	75-09-2	3	1	3
Methyl ethyl ketone (2-Butanone) (MEK)	78-93-3	300	2	300
Methyl Salicylate	119-36-8	4,000	50	4,000

Methyl tertiary butyl ether (MTBE)	1634-04-4	70	1	70
Mirex	2385-85-5	0.1	0.08	0.1
Molybdenum	7439-98-7	40	2	40
Naphthalene	91-20-3	300	2	300
Nickel (Soluble salts)	7440-02-0	100	4	100
Nitrate	14797-55-8	10,000	100	10,000
Nitrite	14797-65-0	1,000	10	1,000
Nitrate and Nitrite		10,000	10	10,000
Nitrobenzene	98-95-3	4	6	6
N-Nitrosodimethylamine	62-75-9	0.0007	0.8	0.8
N-Nitrosodiphenylamine	86-30-6	7	10	10
N-Nitrosodi-n-propylamine (Di-n-propylnitrosamine)	621-64-7	0.005	10	10
Odor		3b	NA	3b
Oil & Grease & Petroleum Hydrocarbons		None Noticeable	NA	None Noticeable
Oxamyl	23135-22-0	200	1	200
Parathion	56-38-2	4	0.08	4
PBBs (Polybrominated biphenyls)	67774-32-7	0.004	0.001	0.004
PCBs (Polychlorinated biphenyls)	1336-36-3	0.02	0.5	0.5
Pentachlorophenol	87-86-5	0.3	0.1	0.3
pH		6.5-8.5	NA	6.5-8.5
Phenol	108-95-2	2,000	10	2,000
Picloram	1918-02-1	500	1	500
Pyrene	129-00-0	200	0.1	200
Salicylic acid	69-72-7	80	30	80
Selenium (Total)	7782-49-2	40	4	40
	7440-			

Silver	22-4	40	1	40
Simazine	122-34-9	0.3	0.8	0.8
Sodium	7440-23-5	50,000	400	50,000
Styrene	100-42-5	100	2	100
Sulfate	14808-79-8	250,000	5,000	250,000
Taste		None Objectionable	NA	None Objectionable
TDS (Total dissolved solids)		500,000	10,000	500,000
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	0.0000002	0.00001	0.00001
1,1,1,2-Tetrachloroethane	630-20-6	1	1	1
1,1,2,2-Tetrachloroethane	79-34-5	1	1	1
Tetrachloroethylene (PCE)	127-18-4	0.4	1	1
2,3,4,6-Tetrachlorophenol	58-90-2	200	3	200
Tetrahydrofuran	109-99-9	10	10	10
Thallium	7440-28-0	0.5	2	2
Toluene **	108-88-3	600	1	600
Toxaphene	8001-35-2	0.03	2	2
2,4,5-TP (2-(2,4,5-Trichlorophenoxy)propionic acid)	93-72-1	60	0.6	60
1,2,4-Trichlorobenzene	120-82-1	9	1	9
1,1,1-Trichloroethane (TCA)	71-55-6	30	1	30
1,1,2-Trichloroethane	79-00-5	3	2	3
Trichloroethene (TCE)	79-01-6	1	1	1
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	1	2,000
2,4,5-Trichlorophenol	95-95-4	700	10	700
	88-06-			

2,4,6-Trichlorophenol	2	1	20	20
1,2,3-Trichloropropane	96-18-4	0.005	0.03	0.03
Vanadium pentoxide	1314-62-1	60	1	60
Vinyl acetate	108-05-4	7,000	5	7,000
Vinyl chloride	75-01-4	0.08	1	1
Xylenes (Total)	1330-20-7	1,000	2	1,000
Zinc	7440-66-6	2,000	10	2,000
Microbiological criteria[m], Radionuclides & Turbidity	Standards promulgated in the Safe Drinking Water Act Regulations (N.J.A.C. 7:10-1 et seq.)			

Explanation of Terms:

* = Ground Water Quality Criteria and PQLs are expressed as ug/L unless otherwise noted. Table 1 criteria are all maximum values unless clearly indicated as a range for which the minimum value is to the left and the maximum value is to the right.

** = revised via administrative change (see 39 N.J.R. 3538(a)).

PQL = Practical Quantitation Level as defined in N.J.A.C. 7:9C-1.4

CASRN = Chemical Abstracts System Registration Number

NA = not available for this constituent.

a = Asbestos criterion is measured in terms of fibers/L longer than 10 micrometers (f/L > 10 um)

ug = micrograms, L = liter, f = fibers, CU= Standard Cobalt Units

b = Odor Threshold Number, mg = milligrams, H = Hardness

(Total) = means the concentration of metal in an unfiltered sample following treatment with hot dilute mineral acid (as defined in "Methods for Chemical Analysis of Water & Wastes", EPA-600/4-79-020, March 1979) or other digestion defined by the analytical method. However samples that contain less than 1 nephlometric turbidity unit (NTU) and are properly preserved, may be directly analyzed without digestion.

m = Pursuant to prevailing Safe Drinking Water Act Regulations any positive result for fecal coliform is in violation of the MCL and is therefore an exceedance of the ground water quality standards.

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Click here to see Ground Water Quality Standards N.J.A.C. 7:9C -- Appendix Table 2

http://www.state.nj.us/dep/wms/bwqsa/

Last Updated: September 18, 2007

IN THE UNITED STATES BANKRUPTCY COURT

FOR THE DISTRICT OF DELAWARE

In re:	)	Chapter 11
	)	
W. R. GRACE & CO., et al.,	)	Case No. 01-1139 (JKF)
	)	(Jointly Administered)
Debtors.	)	

CERTIFICATE OF SERVICE

I, Kathleen P. Makowski, hereby certify that on the 14th day of August, 2008, I caused a copy of the following documents to be served on the individuals on the attached service list in the manner indicated:

EXHIBIT BOOK OF EXHIBITS IN SUPPORT OF DEBTORS' SUPPLEMENTAL RESPONSE AND OBJECTION TO MOTION OF MIAN REALTY, LLC REGARDING THE APPLICABILITY OF THE AUTOMATIC STAY.

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